

Index to Volume 7

INDEX OF ORIGINAL ARTICLES

ACKERMAN, LAUREN V., *jt. as.*, 149-158
 ACTH, effect of, on cancer, of breast, 331-334
 in Hodgkin's disease, generalized, 932
 Adamantinoma, *vt.* carcinoma of mouth, 229
 Adenine, 2-chloro-9- β -d-ribofuranosyl. *See* Adenosine, 2-chloro-
 Adenocarcinoma, of prostate, metastatic, 1247
 Adenocarcinoma, acinic-cell, of salivary glands, clinical course of, 646
 apocrine-gland, and Paget's disease, ex-tramammary, of vulva, 910-919
 of breast, *vt.* angiosarcoma, 592
 of bladder, 119-135
 localization of, 123-128
 pathogenesis of, 121
 cystic, adenoid, of salivary gland, clinical course of, 646
 follicular and alveolar, of thyroid, 1067
 human, cells of, tissue culture of, 394-409
 reimplantation of, results of, 408
 metastatic, azaserine for, 802
 of prostate, 1247
 multicentric, of vulva, 918
 multiple, of prostate, 138
 papillary, of lung, metastatic, to adrenal, 1244
 of thyroid, 1067
 phosphatase of, acid, 95
 primary, of rectovaginal septum, from endometriosis, 893-898
 in situ, of uterus, 722
 Adenoma. *See also* Polyp, adenomatous apocrine, of anus, 367-372
 benign, tissue culture of, 403
 bile-duct, of liver, azo-dye-induced, 1046
 of bladder, 133
 of breast, carcinomatous change in, 318-324
 pathology of, 322
 in pregnancy, 320
 bronchial, 663-670
 carcinoid type, of bronchus, 665
 Hürthle-cell, of thyroid, 235
 oxyphilic, of parotid, 660-662
 sweat-gland, 934. *See also* Hidradenoma, clear-cell
 of thyroid, 1067
 cancer and, 1069
 Adenosine, gastric ulcers from, in rat, 291-301
 pancreatitis from, in rat, 291-301
 2-amino-, pancreatitis from, in rat, 301
 2-chloro-, effect of, on organs, various, in rat, 297
 gastric ulcers from, in rat, 291-301
 pancreatitis from, in rat, 291-301
 2-hydroxy-, gastric ulcer from, 301
 Adrenal, cortex of, carcinoma of, effusion from, cells of, 1179
 lipid response of, after azo dye and hormones, after hypophysectomy, 1044-1047
 metastases to, cortical hypofunction with, 1242-1245
 from cancer, of lung, 1242
 Africans, tumors of liver in, diet and, 1143
 Age, advanced, surgery in, major, prognosis of, 988-990
 of patient, poor-risk, for surgery, 983
 AGGULAR CELI, POLINESTOR, *jt. as.*, 100-105, 311-317
 β -Aminobenzoic acid, in lymphoblastoma cutis and mycosis fungoides, 190-201
 Aminopterin, noncarcinogenic for mice, 411
 Anal canal, carcinoma of, mucocidermoid, anal ducts and, 359-366
 pathology of, 362, 364
 Anal duct, carcinoma originating in, 360
 Anaplasia, of cells, of liver, in hyperplasia, bile-duct, 1134
 ANDREWS, GOULD A., *jt. as.*, 856-866
 And:oblastoma, tubular, of ovary, 522, 534
 Androgens. *See also* specific names of for angiobroma, nasopharyngeal, juvenile, 16, 28
 Androstanolone, for carcinoma, disseminated, of breast, 745
 Anesthesia, for patient, poor-risk, for surgery, 986
 Angiofibroma, nasopharyngeal, juvenile, clinical findings in, 16
 complications of, 15
 diagnosis of, differential, 26
 histopathology of, 17-26
 pathology of, 15-28
 treatment of, 16
 Angiosarcoma, of breast, 586-594
 histology of, 594
 metastases of, sites of, 593
 pathology of, 593
 ANGLE, THOMAS J., and BRADFORD, MARTIN L.: The prognosis of major surgery for cancer in the aged, 988-990
 Animals, carcinoma of, primary, of liver, 468
 ANLYAN, A. J.: β -glucuronidase studies in stem-cell leukemias, 391-393
jt. as., 250-258
 Anoxia nervosa, effusion from, histology of, 1164
 Anus. *See also* Anal canal; Anal duct
 adenoma of, apocrine, 367-372
 Ascites, from cirrhosis, Laennec's, histology of, 1161
 with tumors, estrogenic, of ovary, 523
 ASHE, S. M. PRATHER, *jt. as.*, 539-548
 ASIMOV, ISAAC, *jt. as.*, 92-99
 Athetia hypothesis, 441
 Au¹⁹⁸, colloidal, intravenous, distribution of, 856-866
 effects of, clinical, 861
 excretion of, 860
 liver function after, 860
 radiation from, 856-866
 uptake of, by bone marrow, 864
 by liver, 862
 by spleen, 863
 Azaserine, dosage of, 807
 effects of, toxic, 802
 for tumors, effects of, clinical, 801-814
 Azobenzene, β -dimethylamino-, carcinoma, primary, of liver, induced by, 468
 3'-methyl-4-dimethylamino-, carcinoma, primary, of liver, induced by, 469
 liver-cancer induced by, in hypophysectomized rats, 1044
 Azo dye, liver-cancer induced by, in hypophysectomized rats, 1044
 Baboon, bile ducts of, obstruction to, changes after, 1117
Bacillus proteus, sterilization of, by tobacco smoke, 1106
 BAIN, HARRY W., *jt. as.*, 168-178
 Basaloma, of mouth, 228
 BAUER, ROBERT E.; MOSS, IRWIN H., and RICHARDSON, AUBREY D.: A study of radioactive phosphorus activities in pleural effusions, 852-855
 BENOZ, CHARLES F., and GARRET, RUDOLF: Hemangiopericytoma occurring in the meninges. Case report, 602-606
 BELL, H. G., *jt. as.*, 29-46
 1,2-Benzanthracene, carcinoma, primary, of liver, induced by, 468
 3,4-Benzpyrene, from automobile fumes, 1105
 BERGMAN, R. THEODORE, *jt. as.*, 136-141
 BERKHEISER, SAMUEL W., and CLOUGH, DONALD M.: Oxyphilic adenoma of the parotid gland. Report of a case, 660-662
 BEYER, HAROLD, *jt. as.*, 873-883
 BIERMAN, HOWARD R., *jt. as.*, 383-390
 BIGELOW, NOLTON H.; KLINGER, SIEGFRIED, and WRIGHT, ARTHUR W.: Primary tumors of the heart in infancy and early childhood, 549-563
 Bile duct, adenoma of, azo-dye-induced, 1046
 changes in, after butter yellow, 1111
 common, obstruction of, changes in intrahepatic ducts after, 1115
 extrahepatic, enlargement of, Coward's diet inducing, 1129
 hyperplasia of, and cystadenoma, in liver, human, 1144
 intrahepatic, structure of, and carcinoma, primary, of liver, 1109-1154
 vitamin A and, 1109-1154
 obstruction of, with cellophane, 1123
 complete, canalization after, spontaneous, 1122
 partial, diet and, changes after, 1119
 reactivity of, factors in, 1145
 BINKLEY, GEORGE E., and QUAN, STUART H. Q.: Pseudoinflammatory colloid carcinoma of the rectum, 1020-1028
jt. as., 1016-1019
 Biopsy, aspiration, of cancer, of breast, results of, 774-778
 perineal, open, in cancer, early, of prostate, 690-703
 types of, in cancer, of breast, survival and, 775
 Bladder, adenocarcinoma of, 119-135
 case reports of, 123-132
 classification of, 119-121
 localization of, 123-128
 pathogenesis of, 121
 treatment of, 123-128
 adenoma of, 133
 carcinoma of, squamous-cell, effusion from, cells of, 1179
 BLISS, W. RODERIC, *jt. as.*, 354-358
 Blood, effect of, DL-ethionine on, 868
 myleran on, 386
 β -glucuronidase of, in cancer, of cervix, sex-hormone treated, 732, 741
 in leukemia, stem-cell, β -glucuronidase in, 391-393
 peripheral, pathology of, after colchicine, 613, 613
 in reticuloblastomatosis, cytology of, 173
 toxicity of azaserine for, 803
 Blood chemistry, changes in, in carcinoma, disseminated, of breast, during endocrine therapy, 744-757; 746
 Blood vessels, in angiobroma, nasopharyngeal, juvenile, 17
 BOBANSKY, OSCAR; with the technical assistance of CALITRI, DRUSILLA: Serum phosphohexose isomerase in cancer. I. Method of determination and establishment of range of normal values, 1191-1199
 with the technical assistance of GERTSEN, BLOSSOM, and WILSON, CHARLOTTE: Serum phosphohexose isomerase in cancer. II. As an index of tumor growth in metastatic carcinoma of the breast, 1200-1226
 Bone. *See also* names of specific bones
 biophysical studies of, 815-825
 diseases of, mineralization patterns in, diagnosis by, 824
 fibrosarcoma of, 769
 lesions of, cystic, in tumors, of parathyroid, 1072
 metastases to, from cancer, of breast, 30
 from carcinoma, primary, of liver, 495
 sweat-gland, 375
 from hidradenoma, clear-cell, 935
 sarcoma of, osteogenic, 769
 biophysical studies on, 815-825
 technique of, 815
 mineralization in, 817, 822
 temporal, resection of, subtotal, for cancer, of ear, 995-1001
 tumor of, giant-cell, 764-773
 clinical findings in, 765
 diagnosis of, differential, 769
 histology of, 767
 malignancy of, 769
 pathology of, 766
 second tumor and, 769

INDEX OF ORIGINAL ARTICLES

Bone, tumor of, giant-cell, *cont'd*
sites of, 766
treatment of, end results of, 770

Bone marrow, effect of myleran on, 388
pathology of, after colchicine, 612
in reticuloblastomatosis, 170
cytology of, 174

sternal, cells of, index for, "absolute," 181
changes in, after roentgenotherapy to spleen, in leukemia, granulocytic, chronic, 179-189
in leukemia, granulocytic, chronic, cells of, nucleated, 182-185
uptake by, of ^{198}Au , colloidal, intravenous, 864

BOYD, DAVID P.; MEISSNER, WILLIAM A.; VELKOFF, CYRIL L., and GLADING, THOMAS C.: Primary melanocarcinoma of the esophagus. Report of a case, 266-270

BRADFORD, MARTIN L., *jt. su.*, 988-990

Brain, metastases to, and primary tumor, site of, 682, 683
roentgenotherapy of, 682-689
signs and symptoms of, 687
surgery for, 263
treatment of, end results of, 685-686

tumors of, metastatic, and cancer, of lung, 259-265

Breast, adenocarcinoma of, phosphatase of, acid, 96
adenoma of, carcinomatous change in, 318-324
frequency of, in pregnancy, 320
angiosarcoma of, 586-594
clinical findings in, 588
diagnosis of, differential, 592
management of, 586
atrophic, estrogen-induced changes in, in connective tissue of, 67
in elastic tissue of, 71
in epithelium of, 60
in lobules of, 62
cancer of, advanced, estrogens for, and normal breast tissue, histochemical and histological changes in, 54-74
by biopsy, aspiration, 774-778
effusion from, cells of, 1173
estrogen (equine) for, conjugated, effect of, 758
hormones for, 54-74, 331-334, 758-763
pseudohypophysectomy and, 334, 763
host-resistance factors in, 42
recurrent, and age at initial treatment, 30, 33
metastases of, onset of, 30-39
and stage of primary, 29
statistic on, 29-46
and treatment, initial, 30, 32
size of, survival and, 776
survival in, and clinically cancer-free period, length of, 42
carcinoma of, clinical findings in, 48
disseminated, endocrine treatment of, blood chemistry during, 744-757
metastatic, to bone and liver, isomerase in, phosphohexose, of serum, 1202
to brain, 682
clinical findings in, 1200
isomerase in, phosphohexose, of serum, after adrenalectomy and oophorectomy, 1205, 1209, 1213
case histories on, 1201-1222
as index of tumor growth, 1200-1226
to pituitary, regression of tumor in, 1229
site of, 48
survey of, Central New York Surgical Society, 1920-1952, 47-53
ultrasonic visualization of, 354-358

carcinosarcoma of, 348
cystosarcoma phyllodes of, 335-353
treatment of, results of, 341

fibrosarcoma of, 340, 348, 350
hemangiopericytoma of, malignant, 350
liposarcoma of, 340, 348, 350
lymphoma of, malignant, 350
male, carcinoma of, metastatic, isomerase in, phosphohexose, of serum, 1221
Paget's disease of, 325-330
mesothelioma of, malignant, 340, 349
normal, histochemistry of, after estrogens, 54-74

Breast, normal, *cont'd*
histology of, after estrogens, 54-74
morphology of, 56

Paget's disease of, 49
rhabdomyosarcoma of, 340, 349, 350
sarcoma of, osteogenic, 348
teratoma of, malignant, 348

Brenner tumor, 310

BROADBENT, THOMAS RAY, *jt. su.*, 224-233

Bronchus, adenoma of, 663-670
treatment of, end results of, 668
carcinoma of, cylindromatous type, 663-670
treatment of, end results of, 668
metastases of, to brain, 682

BROTHERS, JAMES H., III, *jt. su.*, 774-778

BURNS, THOMAS C.: Primary melanocarcinoma of the esophagus. Report of a case, 266-270

BURFORD, MARTIN L., *jt. su.*, 988-990

Brain, metastases to, and primary tumor, site of, 682, 683
roentgenotherapy of, 682-689
signs and symptoms of, 687
surgery for, 263
treatment of, end results of, 685-686

tumors of, metastatic, and cancer, of lung, 259-265

Breast, adenocarcinoma of, phosphatase of, acid, 96
adenoma of, carcinomatous change in, 318-324
frequency of, in pregnancy, 320
angiosarcoma of, 586-594
clinical findings in, 588
diagnosis of, differential, 592
management of, 586
atrophic, estrogen-induced changes in, in connective tissue of, 67
in elastic tissue of, 71
in epithelium of, 60
in lobules of, 62
cancer of, advanced, estrogens for, and normal breast tissue, histochemical and histological changes in, 54-74
by biopsy, aspiration, 774-778
effusion from, cells of, 1173
estrogen (equine) for, conjugated, effect of, 758
hormones for, 54-74, 331-334, 758-763
pseudohypophysectomy and, 334, 763
host-resistance factors in, 42
recurrent, and age at initial treatment, 30, 33
metastases of, onset of, 30-39
and stage of primary, 29
statistic on, 29-46
and treatment, initial, 30, 32
size of, survival and, 776
survival in, and clinically cancer-free period, length of, 42
carcinoma of, clinical findings in, 48
disseminated, endocrine treatment of, blood chemistry during, 744-757
metastatic, to bone and liver, isomerase in, phosphohexose, of serum, 1202
to brain, 682
clinical findings in, 1200
isomerase in, phosphohexose, of serum, after adrenalectomy and oophorectomy, 1205, 1209, 1213
case histories on, 1201-1222
as index of tumor growth, 1200-1226
to pituitary, regression of tumor in, 1229
site of, 48
survey of, Central New York Surgical Society, 1920-1952, 47-53
ultrasonic visualization of, 354-358

carcinosarcoma of, 348
cystosarcoma phyllodes of, 335-353
treatment of, results of, 341

fibrosarcoma of, 340, 348, 350
hemangiopericytoma of, malignant, 350
liposarcoma of, 340, 348, 350
lymphoma of, malignant, 350
male, carcinoma of, metastatic, isomerase in, phosphohexose, of serum, 1221
Paget's disease of, 325-330
mesothelioma of, malignant, 340, 349
normal, histochemistry of, after estrogens, 54-74

Breast, normal, *cont'd*
histology of, after estrogens, 54-74
morphology of, 56

Paget's disease of, 49
rhabdomyosarcoma of, 340, 349, 350
sarcoma of, osteogenic, 348
teratoma of, malignant, 348

Brenner tumor, 310

BROADBENT, THOMAS RAY, *jt. su.*, 224-233

Bronchus, adenoma of, 663-670
treatment of, end results of, 668
carcinoma of, cylindromatous type, 663-670
treatment of, end results of, 668
metastases of, to brain, 682

BROTHERS, JAMES H., III, *jt. su.*, 774-778

BRUMSCHWIG, ALEXANDER: A method for mass screening for cytological detection of carcinoma of the cervix uteri, 1182-1184

BURCHENAL, JOSEPH H., *jt. su.*, 801-814

BURDICK, DANIEL, and CHANAYAT, FRANCIS: Central New York Surgical Society survey on breast carcinoma, 1920 to 1952, 47-53

BURSLEM, R. W.; LANGLEY, F. A., and WOODCOCK, A. S.: A clinicopathological study of oestrogenic ovarian tumours, 522-538

BURT, AGNES S.: The human hypophysis in ovarian stromal hyperplasia and pregnancy, 1227-1234

BUTLER, BYRON: The use of hypnosis in the care of the cancer patient, 1-14

Butter yellow, carcinoma, primary, of liver, induced by, 468, 1109
effect of, on hyperplasia, bile-duct, 1111
Coward's diet and, 1139

Buttock, fibromatosis of, juvenile, 964, 967

Calcium, total, of serum, in carcinoma, disseminated, of breast, during endocrine therapy, 744, 748, 749
urinary, and isomerase, phosphohexose, of serum, in carcinoma, metastatic, of breast, 1215, 1217, 1220, 1224, 1225

Calculus, renal, in tumors, of parathyroid, 1072

CALITRI, DRUSILLA, *jt. su.*, 1191-1199

Cal-Exner bodies, 523, 714

Cancer, advanced, types of, virus treatment of, 107
virus treatment of, 106-118
death rates of, 1101
isomerase in, phosphohexose, of serum, 1191-1199, 1226
multicentric, of breast, 29
of prostate, 696, 697
multiple, of breast, 29, 31
primary, 1238
phosphatase of, acid, 92-99
in situ, of cervix, and β -glucuronidase, of vaginal fluid, premenopausal, 729-743
treatment of, delay in, patient-responsive, 920-926
with hypnosis, 1-14

CARABASI, RALPH, *jt. su.*, 331-334, 758-763

Carcinogen, antilymphoma agents as, 410-413
in carcinoma, primary, of liver, 468
inhalants as, types of, 1104
oil, 908

Carcinogenesis, in man, of tumors, of liver, 469

Carcinoid, of bronchus, 665

Carcinoma, in adenoma, of breast, 318-324
adrenal-cortical, histology of, 1236-1237
and melanocarcinoma, in child, 1235-1241
advanced, effect of, DL-ethionine on, 868

anaplastic, cytology of, exfoliative, 274
azaserine for, 802
basal-cell, with melanocarcinoma and xeroderma pigmentosum, 377-382
bile-duct-cell, clinical findings in, 474
hilar, clinical findings in, 474
pathology of, 480

histopathology of, 491

pathology of, 479

bronchogenic, effect of, DL-ethionine on, 870

metastatic, to adrenal, 1243

Carcinoma, *cont'd*
colloid, pseudo-inflamatory, of rectum, 1020-1028
cylindromatous type, of bronchi and trachea, 663-670
of parotid, 669

epidermoid, of thyroid, 1067
frequency of, site of, in Chinese, 427, 428

giant-cell, of thyroid, 1067

Hürthle-cell, of thyroid, 237, 1067

intraepithelial, of cervix, dehydrogenase of, 314
diagnosis of, nuclear:cytoplasmic ratio and nuclear size in, 884-892

of prostate, 700

liver-cell, and bile-duct-cell, combination of, 489
clinical findings in, 472, 475
grading of, 487
histopathology of, 483
pathology of, 477, 479

metastatic, to adrenal, cortical hypofunction with, 1242-1245

from cancer, of prostate, 1246-1248

mucoepidermoid, of anal canal, 359-366

multicentric, of uterus, 722
multiple, 342, 377

origin of, in endometriosis, criteria for, 898

solid, of thyroid, 1067

squamous, with melanocarcinoma and xeroderma pigmentosum, 377-382
of salivary glands, clinical course of, 647

squamous-cell, of cervix, dehydrogenase of, 314
sweat-gland, metastatic, 373-376
transformation of, to sarcoma, 722
types of, of breast, 49
of uterus, 715

Carcinomatosis, diffuse, effusions from, cells of, 1175

Carcinosarcoma, of breast, 348

Cardiovascular system, complications of, in patient, poor-risk, for surgery, 983

CARIKER, MILORD, and DOCKERTY, MALCOLM: Mucinous cystadenomas and mucinous cystadenocarcinomas of the ovary. A clinical and pathological study of 355 cases, 302-310

CARLSON, JAMES C., *jt. su.*, 617-621

Cation-exchange-indicator quinine, as test, in gastric analysis, 289

Cells. *See also* Cytology; Nucleus; Tissue culture
of bone marrow, sternal, index for, "absolute," 181
connective-tissue, in angioblastoma, nasopharyngeal, juvenile, 22
of effusions, 1159

epithelial, of cervix, dehydrogenase of, 314
of endometrium, dehydrogenase of, 100
epithelioid, of tumor, thecoma-fibroma, 527, 529

L. E., in effusions, 1163
of lymphoma, malignant, 273
mesothelial, in effusions, 1165, 1168
malignant, multipotentiality of, 142-148

nutulated, of bone marrow, sternal, in leukemia, granulocytic, chronic, 182-185

nucleic acid of, of nuclei, 779

Paget's, 914

of pituitary, 1227

tumor, metastasizability of, 215-223

Cellophane, to occlude bile duct, 1123

Central New York Surgical Society, survey of, of carcinoma, of breast, 1920-1952, 47-53

Cervix, cancer of, intraepithelial, definition of, 729
invasive, definition of, 729
preinvasive, cytology of, 731
definition of, 731
in situ, and β -glucuronidase, of vaginal fluid, premenopausal, 729-743
carcinoma of, advanced, diethylstilbestrol for, 1029-1030
cytology of, exfoliative, tampon method for, 1182-1184, 1185-1190
technique of obtaining, 519-521
intraepithelial, dehydrogenase of, 314
nuclear area in, 885-889
squamous-cell, dehydrogenase of, 314

Cervix, carcinoma of, *cont'd*
 nuclear area in, 885-889
 dehydrogenase of, 311-317
 epithelium of, normal, radium radiation
 of, reaction to, criteria of, 506
 lesions of, borderline, definition of, 731
 metaplasia of, dehydrogenase of, 314
 squamous, nuclear area in, 885-889
 radium therapy for, reaction to, system-
 tem factors in, 504-518

CHAMNESS, JAMES T., *jt. au.*, 149-158

CHANTRY, FRANCIS, *jt. au.*, 47-53

CHAO, JEN-HUNG; PHILLIPS, RALPH,
 and NICKSON, JAMES J.: Roentgen-ray
 therapy of cerebral metastases, 682-
 689

CHERRY, C. P., and GLÜCKSMANN, A.:
 The influence of systemic factors on
 the reaction to radium treatment of
 the normal and malignant epithelium
 of the uterine cervix, 504-518

Children, carcinoma of, adrenal-cortical,
 and melanocarcinoma, 1235-1241
 female, urogenital tract of, sarcoma
 botryoides of, 76
 leukemic, height and weight of, 849-851
 melanocarcinoma in, 1238
 melanoma of, juvenile, 564-585
 malignant, 564-585
 metastatic, in 5-year-old girl, 163-
 167
 nevi of, pigmented, 564-585
 tumors of, malignant, of heart, 561
 primary, of heart, 549-563
 of thyroid, 1072

CHILDS, DONALD S., *jt. au.*, 179-189

Chinese, tumors of, malignant, incidence
 of, 425-436

Cholic acid, effect of, on hyperplasia,
 bile-duct, Coward's diet and, 1141

Chondrosarcoma, of uterus, 713

Chromosomes, mass of, organic, in sperm
 heads, 873-883
 measurement of, results of, 878
 technique of, 873, 876

number of, nucleic acid and, relation-
 ship of, 792

polytene, 793

Cigarette smoking. *See* Tobacco

Cirrhosis, and carcinoma, primary, of
 liver, 470, 475, 493

Laennec's, effusion from, histocytology
 of, 1161

types of, in carcinoma, primary, of
 liver, 497

CLARK, R. LEE, *jt. au.*, 920-926

CLARE, WALLACE H., *jt. au.*, 704-724

CLARKE, DONALD A., *jt. au.*, 291-301

CLARKE, W. PAGE C., *jt. au.*, 437-443

CLOUGH, DONALD M. *jt. au.*, 660-662

COBS, BRATRIX; CLARK, R. LEE, *jt.*
 McGuire, CARSON, and HOWE, C. D.:
 Patient-responsible delay of treatment
 in cancer. A social psychological study,
 920-926

CODEX OSUNA, Frontispiece, facing p.
 637

Codman's tumor, 769

COHART, EDWARD M.: Socioeconomic dis-
 tribution of stomach cancer in New
 Haven, 455-461

Colchicine, hematological effects of, 607-
 616

pathological effects of, 607-616

Colon. *See also* Rectum
 cancer of, surgery for, palliative, 1016-
 1019
 carcinoma of, phosphatase of, acid, 95

Congestive failure, effusions from, histo-
 cytology of, 1161

CONLEY, JOHN J.: Free skin grafting in
 the sinus, oral, and pharyngeal areas
 in radical surgery of the head and
 neck, 444-454

CONTE, ALEXANDER J., *jt. au.*, 245-249

Cortisone, for cancer of breast, 331-334
 in Hodgkin's disease, generalized, 932
 noncarcinogenic for mice, 411

Coward's diet, effect of, on liver, 1124

COWDRY, E. V., *jt. au.*, 425-436

CRANG, CHARLES LANE, *jt. au.*, 168-178

CRAYER, LLOYD, F.: Some aspects of the
 treatment of Hodgkin's disease. James
 Ewing memorial lecture, 927-933

Crotoside, gastric ulcer from, 301

CURTIS, A. C. *jt. au.*, 190-201

Cylindroma, of bronchus, 665
 of mouth, 228

Cyst, bile duct, after butter yellow, 1113
 of bone, 765

bronchogenic, vs. cancer, cystic, of
 thyroid, 1071

Cystadenocarcinoma, mucinous, myxoma
 peritoneal with, 305
 of ovary, 302-310
 pathology of, 307
 treatment of, 305

Cystadenoma, in development, of carci-
 noma, of liver, 1109
 in liver, human, and bile-duct hyper-
 plasia, 1144
 mucinous, of ovary, 302-310
 pathology of, 306
 treatment of, 304

Cystadenoma lymphomatous, papillary,
 of mouth, 226

Cystine, effect of, necrotizing, for liver,
 in vitamin-A deficiency, 1149

Cystosarcoma phyllodes, 335-353
 cases of, summaries of, 337-340
 histology of, 340
 malignant, vs. angiosarcoma, 592
 metastasizing, 337, 338
 case reports of, 343-346
 histology of, 346

Cytology. *See also* Cells; Nucleus; Tis-
 sue culture
 of adenoma, oxyphilic, of parotid, 660
 atypical, in vaginal fluid, 731
 of blood, in reticuloblastomatosis, 173
 of bone marrow, in reticuloblastomatosis,
 173
 of cancer, preinvasive, 731
 of carcinoma, cylindromatous type,
 664, 667, 668
 primary, of liver, 487
 of cells, malignant, in effusions, 1168
 of cystadenocarcinoma, mucinous, of
 ovary, 307
 of epithelium, of breast, atrophic, es-
 trogen-induced changes in, 60
 exfoliative, of cancer, of prostate, 697,
 700
 of carcinoma, anaplastic, 274
 of cervix, tampon method in,
 1182-1184, 1185-1190
 results of, 1189

of lymphoma, malignant, of duode-
 num, 271-288; 284
 of stomach, 271-288
 technique for, modified, in carci-
 noma, of cervix, 519-521

of hemangiopericytoma, 596, 598

of lymphoma, malignant, 273

of melanocarcinoma, primary, of esoph-
 agus, 269

melanoma, juvenile, of children, 571

of mesothelioma, diffuse, mixed-type,
 of peritoneum, 147
 quantitative, and cytopathology, 779-
 800, 873-883

relation of, to cancer research, 881

of radium reaction, of epithelium, nor-
 mal, of cervix, 506

DAHLIN, DAVID C., *jt. au.*, 764-773

DALE, MILDRED B., *jt. au.*, 849-851

DAVISON, M. MOIRA, *jt. au.*, 92-99

DECKER, DAVID G., *jt. au.*, 893-898

Dehydrogenase, of cervix, 311-317
 of endometrium, 100-105
 of tissue, detection of, technique for,
 100, 313

Delay, in carcinoma, of breast, 32, 48, 49
 patient-responsible, in treatment, of
 cancer, 920-926
 in tumors, of salivary glands, 642

DENHAM, SAM WESLEY, *jt. au.*, 100-
 105, 311-317

Dermatitis, from pt-ethionine, 868

Diagnosis, reliability of, of cancer, of
 stomach, 459

O-Diazoacetyl-L-serine. *See* Azaserine
 1,2,3,6-Dibenzanthracene, carcinoma, pri-
 mary, of liver, induced by, 468

DICKSON, J. A., *jt. au.*, 725-728

Diets, various, effect of, on liver, 1109-
 1154

Digestive tract, toxicity of azaserine
 for, 802

DONOS, E. I.; DOWNING, SAM W., and
 ASHE, S. M. PRATHER: Primary car-
 cinoma originating in the Littré glands,
 539-548

DOCKERTY, MALCOLM B.; PRATT, JOSEPH
 H., and DECKER, DAVID G.: Primary
 adenocarcinoma of the rectovaginal
 septum probably arising from endo-
 metriosis. Report of two cases, 893-
 898
jt. au., 302-310, 671-681

DOWNING, SAM W., *jt. au.*, 539-548

Duodenum, lymphoma of, malignant, cy-
 tology of, exfoliative, 271-288; 284
 Dysplasia, fibrous, of bone, 769

Ear, cancer of, resection for, subtotal,
 of temporal bone, 995-1001
 results of, 1000
 technique of, 996

EBERHART, WARREN F., *jt. au.*, 774-778

EDRIKEN, JACK, *jt. au.*, 899-904

EDGCOMB, JOHN H., *jt. au.*, 75-91

EDMONDSON, HUGH A., and STEINER,
 PAUL E.: Primary carcinoma of the
 liver. A study of 100 cases among
 48,900 necropsies, 462-503

Effusions, histocytology of, 1155-1166,
 1167-1181
 mesothelial cells of, 1159, 1168
 from noncancerous conditions, histo-
 cytology of, 1155-1166
 sources of, 1157
 pleural, P32 activity in, 852-855
 from tumors, malignant, site of, 1168
 FRONTISPIECE, facing p. 425

ELKIN, MILTON, and MUELLER, H.
 PETER: Metastases from cancer of the
 prostate. Autopsy and roentgenological
 findings, 1246-1248

ELLISON, ROSE RUTH; KARNOFSKY,
 DAVID A.; STEINBERG, STEPHEN S.;
 MURPHY, M. LOIS, and BURCHENELL,
 JOSEPH H.: Clinical trials of O-diazo-
 acetyl-L-serine (azaserine) in neoplastic
 disease, 801-814

Empyema, effusions from, histocytology
 of, 1163

Endocrine balance, in carcinoma, dissemi-
 nated, of breast, 744

Endocrine imbalance, in patient, poor-
 risk, for surgery, 981

Endometriosis, adenocarcinoma from, in
 rectovaginal septum, 893-898
 carcinoma arising in, criteria for, 898

Endometrium. *See also* Uterus
 atrophic, dehydrogenase of, 102
 dehydrogenase of, 100-105
 hyperplastic, dehydrogenase of, 101
 of carcinoma, 709
 and tumors, thecoma-fibroma, 529

Endoscopy, for adenoma, and carcinoma,
 of bronchus, end results of, 669

Endothelioma, frequency of, in Chinese,
 429
 of vein, 161

ENGELFELD, BENGT: Biophysical studies
 on bone tissue. VI. Biophysical studies
 on bone tissue from osteogenic sar-
 coma, 815-825

ENTERLINE, HORATIO T., and SCHOERN-
 BERG, HARRY W.: Carcinoma (cylindro-
 matous type) of trachea and bronchi
 and bronchial adenoma. A comparative
 study, 663-670

Environment, in cancer, of lung, 1104
 in etiology, of cancer, factors in, 455

Enzymes. *See also* specific names of
 of cystadenocarcinoma, mucinous, of
 ovary, 307

Eosinophilic granuloma, azaserine for,
 802

Epidemiology, of cancer, of stomach,
 455-461

Epithelioma, vs. carcinoma of mouth, 229

Epithelium, glandular, normal, tissue
 culture of, 402

Epulis, 769

Erythrocytes, in effusions, from tumors,
 malignant, 1168

ESCHER, GEORGE C., *jt. au.*, 744-757

Esophagus, cervical, skin graft in, free
 453
 leukoplakia of, 913
 melanocarcinoma of, primary, 266-270

Estriadiol, ethynodiol, for cancer, advanced,
 of breast, 55
 for carcinoma, disseminated, of
 breast, 745
 for melanoma, 1236, 1240

Estrogens. *See also* specific names of
 for cancer, advanced, of breast, and
 changes in normal breast tissues,
 54-74
 effect of, on bile duct, intrahepatic,
 Coward's diet and, 1138

Estrogen activity, in tumors, thecoma-
 fibroma, of ovary, 527

Estrogen (equine), conjugated, in cancer,
 of breast, effect of, on clinical course,
 758-763

Estrone sulfate, for carcinoma, dissemi-
 nated, 1236

nated, of breast, 745
 SL-Ethionine, effects of, in cancer, 867-872
 toxicity of, 868
 Ewing's tumor, effusion from, cells of, 1179
 frequency of, in Chinese, 429

Facial nerve, palsy of, after surgery, of salivary glands, 654
 FARROW, JOSEPH H., *jt. su.*, 744-757
 Fext, fibromatosis of, juvenile, 958, 960
 FERGUSON, FRANK C. JR., *jt. su.*, 607-616
 Fibroadenoma, of breast, 319
 giant, *vs.* angiomyxoma, 592
 Fibroma, aponeurotic, juvenile, 958, 962, 971
 case reports of, 974, 976
 ossifying, 769
 osteogenic, 769
 of ovary, 522
 Fibromatosis, case reports of, 972, 973, 975, 976, 977
 congenital, generalized, 969
 desmoid, 956, 958, 963, 964, 971
 case reports of, 972, 973, 974, 976
 diffuse, of muscle, case reports of, 972, 974
 generalized, case reports of, 973, 974
 juvenile, 953-978
 case histories of, 971-977
 etiological factors in, 956
 histology of, 970
 treatment of, 971
 types of, 955
 keloidal, case reports of, 975
 plantar, 958, 961, 971
 case reports of, 972, 973
 after roentgenotherapy, 149-158
 Fibrosarcoma, of bone, 769
 differentiated, 956, 958, 963, 964, 971
 case reports of, 972, 973, 974
 with fibromatosis, case reports of, 975, 976
 after penicillin in sesame oil, 905-909
 phosphatase of, acid, 96
 after radiation-induced fibromatosis, case report of, 149
 after roentgenotherapy, 149-158
 of uterus, 713
 FINKE, ALEX L., *jt. su.*, 690-703
 FISHMAN, WILLIAM H.; GREEN, S.; HOMBURGER, F.; KASDON, S.; CHARLES; NIEDBURG, H. E.; MCINNIS, G., and FUND, E. R.: β -Glucuronidase studies in women. VII. Premenopausal vaginal-fluid β -glucuronidase values in relation to in situ cancer of the cervix, 729-743
 Fistula, salivary, after surgery of, parotid, 657
 FORAKER, ALVAN G.: An analysis of nuclear size and nuclear: cytoplasmic ratio in the histological diagnosis of intraepithelial carcinoma of the cervix uteri, 884-892
 AGUILAR CELI, POLINESTOR, and DENHAM, SAM WESLEY: Dehydrogenase activity in normal and hyperplastic endometrium, 100-105
 DENHAM, SAM WESLEY, and AGUILAR CELI, POLINESTOR: Localization of sites of dehydrogenase activity in the cervix uteri: normal, metaplastic, and neoplastic epithelium and cervicitis, 311-317
 Formosa, Chinese of, malignant tumors of, incidence of, 425-436
 Fowler's solution, noncarcinogenic for mice, 411
 FRAZELL, EDGAR L.: Clinical aspects of tumors of the major salivary glands, 637-659
 GALLIVAN, W. F., *jt. su.*, 595-601
 GARRET, RUDOLF, *jt. su.*, 602-606
 Gastrectomy, total, complications after, factors in, 1012
 extent of, mortality after, 1014
 mortality from, postoperative, 1010-1015
 causes of, 1011
 Gastric analysis, without intubation, 289-290
 Gastrointestinal tract, carcinoma of, metastases of, to brain, 682
 pathology of, after colchicine, 609
 tumors of, malignant, effusions from, cells of, 1171
 GERSHTEIN, BLOOMSON, *jt. su.*, 1200-1226
 GHORMLEY, RALPH E., *jt. su.*, 764-773
 GILBERT, CHRISTINE, *jt. su.*, 1109-1154
 GILLMAN, JOSEPH; GILBERT, CHRISTINE, and SPENCE, ISOBEL: Some factors regulating the structural integrity of the intrahepatic bile ducts with special reference to primary carcinomas of the liver and vitamin A, 1109-1154
 GLADDING, THOMAS C., *jt. su.*, 266-270
 Glands. *See also* specific names of apocrine, adenoma of, 367-372
 adenocarcinoma of, 910-919
 Littré, carcinoma originating in, 539-548
 mucous, oral, tumors of, 224-233
 Ghoma, frequency of, in Chinese, 429
 GLÜCKSMANN, A., *jt. su.*, 504-518
 β -Glucuronidase, in leukemia, stem-cell, 391-393
 of vaginal fluid, premenopausal, and cancer, *in situ*, of cervix, 729-743
 values for, in cancer, intraepithelial, of cervix, 731
 in cytology, normal, of cervix, 732, 740
 in lesions, borderline, of cervix, 731, 733, 739
 Goiter, nodular, Hürthle cells in, 235
 GOLDENBERG, ISA S.: Penicillin in sesame oil and fibrosarcoma. A report of two cases, 905-909
 GORDON, DOUGLAS, *jt. su.*, 758-763
 Granuloma, eosinophilic, 769
 GREEN, S., *jt. su.*, 729-743
 GRIFFIN, A. C., *jt. su.*, 1044-1047
 GT-41. *See* Myleran
 Guinea pig, bile duct of, common, obstruction of, changes after, 1117
 HADLEY, G. GORDON, *jt. su.*, 934-952
 HAGOPIAN, HELEN, *jt. su.*, 92-99
 HALL, WILLIAM E. B., *jt. su.*, 373-376
 HAMMOND, E. CUYLER: Lung cancer and common inhalants, 1100-1108
 Hands, fibromatosis of, juvenile, 958, 960
 Hand-Schüller-Christian disease, 769
 HAUG, WALTER A., and LOSLI, ERNEST J.: Primary leiomyosarcoma within the femoral vein. Report of a case and review of the literature, 159-162
 HAZARD, J. B., *jt. su.*, 725-728
 HAZLET, JOHN W., *jt. su.*, 289-290
 Heart, fibroma of, congenital, intramural, 553
 histology of, 554
 lesions of, from virus, pathology of, 114
 rhabdomyomatosis of, congenital, 557
 tumors of, primary, in children, 549-563
 Height, of children, leukemic, 849-851
 Hemangiocendothelioma, malignant, of breast, 350
 Hemangioma, capillary, *vs.* hemangiopericytoma, 603
 Hemangiopericytoma, 595-601
 clinical findings in, 595, 599
 diagnosis of, differential, 603
 histology of, 596, 598
 of meninges, 602-606
 pathogenesis of, 603
 pathology of, 598, 602, 604
 sites of, 597
 Hematuria, from DL-ethionine, 868
 Hemithyroidectomy, 1074
 Heteroploid, of cancer cell, 792
 HICKLEY, ROBERT C. and LAYTON, JACK M.: Sacrococcygeal teratoma. Emphasis on the biological history and early therapy, 1031-1043
 Hidradenoma, clear-cell, benign, malignant change in, 946
 characteristics of, pathological, 935
 metastasizing, 934-952
 case reports of, 937-941
 pathology of, 941
 nomenclature of, 949
 nonmetastasizing, clinical findings in, 943
 histology of, 943
 pathology of, 943
 HILL, ROBERT E., and MILLER, FRANK N., JR.: Adenomas of the breast. With case report of carcinomatous transformation in an adenoma, 318-324
 HILL, WILLIAM T., *jt. su.*, 119-135
 HIRST, ALBERT E., JR., and BERGMAN, R. THEODORE: Carcinoma of the pros-
 tate in men 80 or more years old, 136-141
 HLINE, JOHN, *jt. su.*, 779-800
 Hodgkin's disease. *See also* Lymphoma
 azaserine for, 802
 classification of, 927
 effect of, azaserine on, 808, 809
 effusions from, cells in, 1178
 frequency of, in Chinese, 429
 generalized, complications of, 932
 treatment of, 931
 pregnancy and, 933
 of stomach, cytology of, exfoliative, 282
 treatment of, 927-933
 surgical, 928
 HOGG, LEWIS, JR., *jt. su.*, 586-594
 HOLLAND, JAMES F., *jt. su.*, 1242-1245
 HOLYOLE, E. DOUGLAS, *jt. su.*, 437-443
 HOMBURGER, F., *jt. su.*, 729-743
 HOPKINS, JOHN A., *jt. su.*, 690-703
 Hormones. *See also* specific names of and adrenal-lipoid response, after azo dye and hypophysectomy, 1044-1047
 for cancer, of breast, 331-334, 758-763
 of liver, azo-dye-induced, 1044-1047
 excretion of in cancer, of breast, effect of, ACTH and cortisone, 331-334
 estrogen (equine), conjugated, 758-763
 follicle-stimulating, and luteinizing, urinary, relationship of, 762
 gonadotropic, urinary, reduction in, after estrogen (equine), conjugated, 761
 production of, by tumors, of ovary, 536
 sex, in cancer of cervix, effect of, on β -glucuronidase, 732, 739
 HORN, ROBERT C., JR.: Hürthle-cell tumors of the thyroid, 234-244
 HORWITZ, BENJAMIN N., *jt. su.*, 331-334, 758-763
 HOWE, C. D., *jt. su.*, 920-926
 HOWRY, DOUGLASS H.; STOTT, DOROTHY A., and BLISS, W. RODERICK: The ultrasonic visualization of carcinoma of the breast and other soft-tissue structures, 354-358
 HUDSON, PERRY B.; FINKE, ALEX L.; HOPKINS, JOHN A.; SPOUL, EDITH E., and STOUT, ARTHUR PURDY: Prostatic cancer. XI. Early prostatic cancer diagnosed by arbitrary open perineal biopsy among 300 unselected patients, 690-703
 HUSSEY, ROBERT A., and THOMAS, LOUIS B.: Histological and histochemical alterations in the normal breast tissues of patients with advanced breast cancer being treated with estrogenic hormones, 54-74
 17- β -Hydroxyandrostane-3-one, in carcinoma, disseminated, of breast, 745
 Hyperplasia, of bile duct, intrahepatic, 1109
 Coward's diet inducing, 1125
 in rats, induction of, procedure for, 1110
 of liver, after necrosis, 1133
 stromal, of ovary, and pituitary, 1227-1234
 Hypertrophy, giant, of mucosa, of stomach, 671-681
 clinical findings in, 673
 pathology of, 676
 Hypnosis, history of, 1
 hypothesis of, 4
 for patient, with cancer, 1-14
 case histories of, 7
 effects of, 11
 methods in, 5
 Hypophsectomy, pseudo-, in cancer, of breast, 334, 763
 Hypothyroidism, after thyroidectomy, 1094
 India, tumors in, malignant, frequency of, 433
 Indonesia, tumors in, malignant, frequency of, 433
 Inflammation, effusions from, histocytology of, 1163
 Inhalants, common, and cancer, of lung, 1100-1108
 Intestine. *See also* names of parts of small, terminal, in reticuloblastomatosis, 173
 Isomerase, phosphohexose, of erythrocytes, 1196
 of serum, activity of, units of, con-

version table for, 1192
in cancer, determination of, method for, 1191-1199
values of, normal, 1191-1199
range of, in controls, 1195
of tissue, 1197
cancerous, 1197
Isotopes, radioactive. *See* specific names of; symbols for
IVERSON, PRESTON C., *jt. au.*, 377-382

James Ewing Memorial Lecture, 927-933
Japan, tumors in, malignant, frequency of, 433
Jaundice, after azaserine, 806
Jugular vein, excision of, in surgery, for tumors, of thyroid, 1090

KARNOFSKY, DAVID A., *jt. au.*, 801-814
KASDON, S. CHARLES, *jt. au.*, 729-743
KAY, SAUL: Mucoepidermoid carcinoma of the anal canal and its relation to the anal ducts, 359-366
and HALL, WILLIAM E. B.: Sweat-gland carcinoma with proved metastases. Report of case, 373-376
KEASBEY, LOUISA E., and HADLEY, G. GORDON: Clear-cell hidradenoma. Report of three cases with widespread metastases, 934-952
KELLY, KEITH H., *jt. au.*, 383-390
Keloid, management of, 1095
KENNEY, FRANCIS D.; DOCKERTY, MALCOLM B., and WAUGH, JOHN M.: Giant hypertrophy of gastric mucosa—clinical and pathological study, 671-681
17-Ketosteroid, urinary, after ACTH and cortisone, for cancer, of breast, 332
Kidney, carcinoma of, effusions from, cells of, 1178
metastases of, to brain, 682
2-chloroadenosine effect on, pathology of, 294, 297
complications of, in patient, poor-risk, for surgery, 983
cystic, ultrasonic visualization of, 355
pathology of, after colchicine, 611
uptake by, of Au¹⁹⁸, colloidal, intravenous, 864
KIRKMAN, L. W., *jt. au.*, 190-201
Kirschner wire, as prosthesis, buried, for mandible, defects of, 1005
KLINGER, SIEGFRIED, *jt. au.*, 549-563
KLOPP, CALVIN T., *jt. au.*, 991-994
KNIGHTS, EDWIN M., JR.: Metastatic tumors of the brain and their relation to primary and secondary pulmonary cancer, 259-265
KNIBBLEY, RALPH M., *jt. au.*, 856-866
KUPFER, ADELE, *jt. au.*, 779-800

Lactation, and breast, normal, morphology of, 56
LA'DUE, JOHN S., and WROBLEWSKI, FELIX: Evaluation and preparation of the poor-risk patient with cancer for major surgery, 979-987
LANGLEY, F. A., *jt. au.*, 522-538
Larynx, cancer of, thyroid complicating, 1088
excision of, total, in cancer, of thyroid, 1087
skin graft in, free, 452
LAWTON, JACK M., *jt. au.*, 1031-1043
Leg, fibromatosis of, juvenile, 964, 967
Leiomyoma, of uterus, 913
of vein, 161
Leiomyosarcoma, primary, of femoral vein, 159-162
of lung, 250-258
case reports of, 250-257
of uterus, 704, 713
LEMON, HENRY M.; DAVISON, M. MOIRA, and ASIMOV, ISAAC; with the technical assistance of HAGOPIAN, HELEN: Acid-phosphatase activity of normal and neoplastic human tissues, 92-99
LESTER, JANE, and STOUT, ARTHUR PURDY: Cystosarcoma phyllodes, 335-353
Leukemia, acute, azaserine for, 802, 811
in children, diseases complicating, 849
height and weight and, 849-851
frequency of, in Chinese, 429
granulocytic, cells of, in effusions, from lymphoma, 1178
chronic, myleran for, 383
radiotherapy to spleen for, sternal marrow changes after, 179-189

Leukemia, *cont'd*
lymphatic, chronic, azaserine for, 802
myleran for, effects of, 383-390
stem-cell, β -glucuronidase in, 391-393
Leukocytes, effect of, azaserine on, 803, 804
of effusions, from tumors, malignant, 1168
Leukoplakia, of esophagus, 913
Levulic, 914
Lewin, JOHN S., *jt. au.*, 995-1001
LILLIE, R. C. WALTON, *jt. au.*, 617-621
Lipid, of nucleus, 791
Lipoma, of breast, 320
—, angioma, 592
Liposarcoma, of breast, 340, 348, 350
Littré glands, carcinoma of, primary, 539-548
histology of, 543
Liver, adenoma of, bile-duct, azo-dye-induced, 1046
anaplasia in, in hyperplasia, bile-duct, 1134
atrophy of, after Coward's diet, 1133
cancer of, azo-dye-induced, hormones and, after hypophysectomy, 1044-1047
carcinoma of, in Africans, malnourished, 1109
carcinogens of, for man, 469
cholangiocellular and hepatocellular coexisting, 1109
in man, and carcinoma, experimental, of liver, of rat, 1145
primary, 462-503
in animals, 468
and bile ducts, intrahepatic, structure of, 1109-1154
cirrhosis and, 470, 473
classification of, 476
cytology of, 487
diagnosis of, differential, 493
differentiation in, 487
etiology of, 465
experimental, 468
grades of, 487
predisposing factors in, 465
changes in, after butter yellow, 1111
complications from, in patient, poor-risk, for surgery, 982
cyst of, after butter yellow, 1113
effect of, azaserine on, 806
fatty, after Coward's diet, 1133, 1136
hyperplasia of, after necrosis, 1133
infection in, in vitamin-A deficiency, 1134
lesions of, from virus, pathology of, 112
metaplasia of, after necrosis, 1133
necrosis of, Coward's diet inducing, 1130
pathology of, after colchicine, 610
pigmentation of, changes in, in vitamin-A deficiency, 1134
in reticuloblastomatosis, 171
sarcoma of, primary, 498
uptake by, of Au¹⁹⁸, colloidal, intravenous, 862
Liver function, after Au¹⁹⁸, colloidal, intravenous, 860
effect of, DL-ethionine on, 868
Lobectomy, of thyroid, 1074
LOSSI, ERNEST J., *jt. au.*, 159-162
LOW-BIER, B. V. A., *jt. au.*, 29-46
LUCIA, E. L., *jt. au.*, 29-46
Lung, adenocarcinoma of, diagnosis of, by cytology of effusions, 1180
papillary, metastatic, to adrenal, 1244
cancer of, cigarette smoking and, 1107
death rate in, increase of, 1100
infectious respiratory diseases and, 1101
time trends in, 1103
and inhabitants, common, 1100-1108
tobacco as, 1104
types of, 1104
metastatic, to brain, 259-265, 682
smoking and, 245-249
and tumors, metastatic, of brain, 259-265
carcinoma of, effusions from, cells in, 1169
metastases of, sites of, 263
types of, metastatic, to brain, 262
hemangiopericytoma of, 595
leiomyosarcoma of, primary, 250-258
metastases to, from cancer, of prostate, 1247
from carcinoma, of liver, 495
from hemangiopericytoma, 597, 601
number of, and primary tumor, size of, 437-443
pathology of, after colchicine, 615
uptake by, of Au¹⁹⁸, colloidal, intravenous, 864
Lupus erythematosus, effusions from, histocytology of, 1163
LUSE, SARAH A., and REAGAN, JAMES W.: A histocytological study of effusions. I. Effusions not associated with malignant tumors, 1155-1166
II. Effusions associated with malignant tumors, 1167-1181
Lymphedema, of face, after thyroectomy, 1095
Lymphoblastoma cutis, α -aminobenzoic acid for, 190-201
Lymphoma. *See also* Hodgkin's disease
chemical agents for, lung-tumor-inducing, in mice, 410-413
diagnosis of, by cytology of effusions, 1180
effusions from, cells of, 1177
malignant, of breast, 350
of duodenum, cytology of, exfoliative, 284
of stomach, case reports of, 275
of uterus, 714
Lymph nodes, pathology of, after colchicine, 609
in reticuloblastomatosis, 172
tissue culture of, 401
LYNCH, MATTHEW J. G.; BAIN, HARRY W.; STANYON, JACK H., and CRANG, CHARLES LANE: Reticuloblastomatosis and the Letterer-Siwe syndrome. Report of a case of leukemic reticuloblastomatosis, 168-178

MCCLANAHAN, B. J., and HOGG, LEWIS, JR.: Angiosarcoma of the breast, 586-594
MCCORMACK, LAWRENCE J., and GALLIVAN, W. F.: Hemangiopericytoma, 595-601
HAZARD, J. B., and DICKSON, J. A.: Malignant epithelioid neurilemmoma (schwannoma), 725-728
MC GUIRE, CARSON, *jt. au.*, 920-926
MC INNES, GEORGE F.: Effect of diethylstilbestrol on advanced carcinoma of the cervix. Preliminary observations, 1029-1030
jt. au., 729-743
MC NEA, GORDON, and PACK, GEORGE T.: Postoperative mortality after total gastrectomy, 1010-1015
MC WHORTON, HENRY E., and WOOLNER, LEWIS B.: Pigmented nevi, juvenile melanomas, and malignant melanomas in children, 564-585
Maize, effect of, on hyperplasia, of bile duct, bile-duct obstruction and, 1141
Male, adolescent, angiobromas of, pathology of, 15-28
Malnutrition, and liver disease, 1142
Mandible, defects in, prosthesis for, metallic, buried, 1002-1009
MARTIN, HAYES: The surgery of thyroid tumors, 1063-1099
MARTLAND, HARRISON STANFORD, M.D., (1883-1954), Frontispiece, facing p. 1063
MASSEY, BARBARA W., *jt. au.*, 271-288
McGREGOR, SYDNEY, with tumors, estrogenic, of ovary, 523
MEISSNER, WILLIAM A., *jt. au.*, 266-270
Melanocarcinoma and carcinoma, adrenal-cortical, in child, 1235-1241
and xeroderma pigmentosum, 377-382
histology of, 1237
primary, of esophagus, 266-270
histopathology of, 269
Melanoma, azaserine for, 802
juvenile, of children, 564-585
clinical findings in, 568
cytology of, 571
histology of, 569
vs. melanoma, malignant, 581
malignant, of children, 564-585
case reports of, 577
clinical course in, 581
histology of, 578, 579
vs. melanoma, juvenile, 581
incidence of, 581
metastases of, to brain, 682
effusions from, cells of, 1179
fatal, in 5-year-old girl, 163-167
and puberty, precocious, 1238
MELLORS, ROBERT C.; HILINKA, JOHN;

KUPFER, ADELE, and SUGIURA, KANEMATSU: Quantitative cytology and cytopathology. II. The quantity of nucleic acid in individual nuclei of normal and neoplastic tissues of the mouse, 779-800

STOHLISKI, ALFRED, and BEYER, HAROLD: Quantitative cytology and cytopathology. III. Measurement of the organic mass of sets of chromosomes in germinal cells of the mouse, 873-883

Meninges, hemangiopericytoma of, 602-606

Meningioma, angioblastic, and hemangiopericytoma, 605

meningothelial, cellular, *vs.* hemangiopericytoma, 603

Menopause, and breast, normal, morphology of, 57

Menstruation, endometrium in, dehydrogenase of, 100

MESCHMANN, ALAN C., *jt. au.*, 1235-1241

Mesothecymoma, malignant, of breast, 340, 349

Mesentery, leiomyosarcoma of, effusion from, cells of, 1179

Mesothelioma, diffuse, mixed-type, of peritoneum, 142-148

peritoneal, 899-904

clinical course of, case report of, 899

histology of, 902

pathology of, 901

Metabolism, and liver, factors in, 1109-1154

Metaplasia, of liver, after necrosis, 1133

Metastases, of adenocarcinoma, cystic, adenoid, of salivary glands, 646 of pancreas, 869

of adenoma, of bronchus, 668

of angiiosarcoma, of breast, sites of, 593

to bone, from cancer, of breast, 30

from carcinomas, primary, of liver, 495

sweat gland, 375

from hidradenoma, clear-cell, 935

to brain, and cancer, of lung, 259-265, 682

roentgenotherapy of, 682-689

in cancer, of breast, regression of, on estrogen (equine), conjugated, 759 of colon and rectum, effect of, on survival after surgery, 1018 of lung, 259, 682, 1245

of prostate, 702, 1246-1248

sites of, of primary, 1246

spread of, routes of, 1247

recurrent, of breast, 30

of thyroid, 1071, 1075

in carcinoma, of breast, 49

and isomerase, phosphohexose, of serum, as index of tumor growth, 1200-1226

bronchogenic, 870

cylindromatous type, 664

liver-cell, 479, 480

squamous, of salivary glands, 647

sweat-gland, 373-376

development of, factors in, 441

generalized, from cancer, of breast, 31

of hemangiopericytoma, 597, 605

of hidradenoma, clear-cell, case reports of, 937-941

intracranial, and tumor, primary, site of, 260

of leiomyosarcoma, primary, of femoral vein, 162

to lung, after transplantation, 218, 221

and tumor, primary, size of, 437-443

lymph node, of adenocarcinoma, tissue culture of, 404

of melanocarcinoma, 1236

of melanoma, malignant, fatal, in 5-year-old girl, 163-167

of mesothelioma, diffuse, mixed-type, of peritoneum, 147

in Paget's disease, of vulva, 911

sites of, from carcinoma, of lung, 263

primary, of liver, 495

of tumor, granulosa-cell, of ovary, 534

mixed, benign, of salivary glands, 645

müllerian, mixed, malignant, of uterus, 706

tumor-cell capacity for, 215-223

and transplantation, 218

Methionine, to reverse α -ethionine effect, 867, 871

20-Methylcholanthrene, carcinoma, primary, of liver, induced by, 468

3'-Methyl-4-dimethylaminoazobenzene, liver-cancer induced by, in hypophysectomized rats, 1044

Microscopy, electron, of nuclei, 786

interference, of nuclei, 785

phase, of nuclei, 783

Microspectroscopy, ultraviolet, of nuclei, 782

MILLER, FRANK N., *Jr. jt. au.*, 318-324

Mole, common. *See* Nevi, pigmented

Monkey, bile duct of, common, ligation of, changes after, 1117

MOORE, CONDICT, and IVERSON, PRESTON C.: Xeroderma pigmentosum. Showing common skin cancers plus melanocarcinoma controlled by surgery, 377-382

MOSS, IRWIN H., *jt. au.*, 852-855

Mouth, lesions of, from azaserine, 804

skin graft in, free, 445

tumors of, glands, mucous, 224-233

pathology of, 228

treatment of, 231

management of, 226

MUELLER, H. PETER, *jt. au.*, 1246-1248

MURKIN, PAUL J., *jt. au.*, 331-334, 758-763

MURPHY, M. LOIS, *jt. au.*, 801-814

MURRAY, HAMIL: A modified cytological technique for the detection of uterine carcinoma, 519-521

Mycosine fungoides, β -aminobenzoic acid for, 190-201

azaserine for, 802

Myeloma, multiple, 769

effusions from, cells of, 1178

myeleran in, 385

Myeleran, for leukemia, effects of, 383-390

noncarcinogenic for mice, 411

Myoma, benign, of vein, 161

Myosarcoma, of vein, 161

Myxedema, effusion from, histocytology of, 1164

Myxoma peritonei, with cystadenocarcinoma, mucinous, 305

management of, 304

2-Naphthylamine, carcinoma, primary, of liver, induced by, 468

Naopharynx, angiobroma of, juvenile, pathology of, 15-28

carcinoma in, Chinese, 429

NATHANSON, IRA T., M.D., (1904-1954), Frontispiece, facing p. 849

Neck, fibromatosis of, juvenile, 956

Neck dissection, bilateral, in tumor, of thyroid, 1077, 1089

radical, in salivary-gland tumors, 653

unilateral, routine, in thyroidectomy, 1075

Negro, melanoma of, 1238

Neodrol, for carcinoma, disseminated, of breast, 745

Nervous system, central, lesions of, from virus, pathology of, 111

pathology of, after colchicine, 615

Neurilemmoma, epithelioid, malignant, histology of, 725

of peroneal nerve, 725-728

Neuroblastoma, azaserine for, 802

effusions from, cells of, 1178

Neurofibromatosis, effusion from, cells of, 1179

Nevus, blue, of children, 565

compound, of childhood, 565

pigmented, in children, 564-585

junctional change in, 565, 577

New Haven, stomach cancer in, socio-economic factors in, 455-461

NEWMAN, WILLIAM, and SOUTHWAN, CHESTER M.: Virus treatment in advanced cancer. A pathological study of fifty-seven cases, 106-118

NICKSON, JAMES J., *jt. au.*, 682-689

NIEBURGS, H. E. M., *jt. au.*, 729-743

Nitrogen mustard, in Hodgkin's disease, 930

generalized, 931

lung-tumor-inducing, in mice, 410

Nuclear:cytoplasmic ratio, in diagnosis of carcinoma, intraepithelial, of cervix, 884-892

Nucleic acid, deoxyribose-, of chromosomes, 880

of nuclei, 791

of nucleus, 879

determination of, methods of, 779

quantity of, in nuclei, determination of, 787

neoplastic, 779-800

normal, 779-800

Nucleic acid, *Cont'd*

ribose, of nucleus, 791

Nucleus, area of, in carcinoma, intraepithelial, of cervix, 885-889

squamous-cell, invasive, of cervix, 885-889

in metaplasia, squamous, of cervix, 885-889

heteroploid of, nucleic acid and, 792

mass of, organic, 879

microscopy of, 782-786

nucleic acid of, 879

quantity of, 779-800

size of, in diagnosis, of carcinoma, intraepithelial, of cervix, 884-892

Nutrition, in patient, poor-risk, for surgery, 979

OBER, WILLIAM B., and EGGCOMB, JOHN H.: Sarcoma botryoides in the female urogenital tract, 75-91

Obstruction, bile-duct, effect of, on hyperplasia, bile-duct, Coward's diet and, 1141

Oil, as carcinogen, 908

heated, as carcinogen, 908

Oil orange E, carcinoma, primary, of liver, induced by, 469

O'NEAL, M. A., *jt. au.*, 1044-1047

Onkocytoma. *See* Adenoma, oxyphilic

Osteoma, osteoid, 769

Ovary, androblastoma of, tubular, 522, 531, 534

cancer of, effusions from, cells in, 1171

carcinoma of, diagnosis of, by cytology of effusions, 1180

cystadenocarcinoma of, mucinous, 302-310

clinical findings in, 302

pathology of, 306

treatment of, 304

dehydrogenase of, 104

fibroma of, 522

hormone production by, 536

hyperplasia of, stromal, histology of, 1229

pituitary in, 1227-1234

thecoma of, 522

hormone production by, 536

tumor of, diagnosis of, 523, 531

Dougal's, 522

estrogenic, clinicopathological study of, 522-538

granulosa-cell, 522

age and, 531

classification of, microscopic, 523, 527

clinical findings in, 523

histogenesis of, 536

hormone production in, 536

malignancy of, 527

Sertoli-cell, 522, 534

thecoma-fibroma, age and, 531

clinical findings in, 523

epithelioid cells and estrogenic activity of, 527

microscopic findings in, 528

P³², in effusion, pleural, 852-855

index, calculation of, 853

value of, 854

PACK, GEORGE T., *jt. au.*, 1010-1015

Page's cells, 914

Page's disease, of breast, 49

male, 325-330

pathology of, 327, 329

extramammary, in carcinoma, sweat-gland, 373

of vulva, and adenocarcinoma, apocrine-gland, 910-919

histology of, 913

Pain, hypnosis for, 11

Pancreas, adenosine effect on, 297

carcinoma of, ductal, effect of, α -ethionine on, 868

2-chloroadenosine effect on, 293, 295

Pancreatitis, from adenosine, 2-chloro-, in rat, 291-301

PAPANICOLAOU, GEORGE N.: Cytological evaluation of smears prepared by the tampon method for the detection of carcinoma of the uterine cervix, 1185-1190

Papilloma, intraductal, of breast, 320

Parathormone, effect of, on hyperplasia, bile-duct, Coward's diet and, 1139

Parathyroids, identification and preservation of, in surgery, of tumors, of thyroid, 1082

Parotid, anatomy of, 1066

tumors of, 1072

Parotid, adenocarcinoma of, metastatic, effusion from, cells of, 1179

adenoma of, oxyphilic, 660-662

anatomy of, surgical, 649

carcinoma of, cylindromatous type, 669

tumors of, 639, 640

excision of, local, technique of, 651

Parotidectomy, subtotal, 652

total, 653

PARNERS, HERBERT, and LEWIS, JOHN S.: Subtotal resection of the temporal bone for cancer of the ear, 995-1001

PARNERS, WILLIAM B., JR.; WATKINS, CHARLES H.; PEASE, GERTRUDE L., and CHILDS, DONALD S., JR.: Changes in sternal marrow following roentgen-ray therapy to the spleen in chronic granulocytic leukemia, 179-189

Patient, poor-risk, evaluation and preparation of, for surgery, major, 979-987

PEASE, GERTRUDE L., *jt. su.*, 179-189

PENDERGRASS, E. P., and EDEKER, JACK: Peritoneal mesothelioma. Case report, 899-904

Penis, carcinoma of, histology of, 543

from Littré glands, 539-548

pathology of, 540

Peritoneum, mesothelioma of, 899-904

diffuse, mixed-type, 142-148

pathology of, 145

PETRAKIS, NICHOLAS L.; BIERMAN, HOWARD R.; KELLY, KEITH H.; WHITE, LAURENS P., and SHIMKIN, MICHAEL B.: The effect of 1,4-dimethanesulfonylxybutane (GT-41 or myleran) upon leukemia, 383-390

PETTIT, VERNON D.; CHAMNESS, JAMES T., and ACKERMAN, LAUREN V.: Fibromatosis and fibrosarcoma following irradiation therapy, 149-158

Pharynx, skin graft in, free, 451

PHILLIPS, FREDERICK S., *jt. su.*, 291-301

PHILLIPS, RALPH, *jt. su.*, 682-689

Phosphate, acid of, tissue, neoplastic, 92-99

normal, 92-99

alkaline, of breast, normal, 58

glycerol, alkaline, of serum, in carcinoma, disseminated, of breast, during endocrine therapy, 744

of serum, "flare" of, 751

Phosphorus, inorganic, in carcinoma, disseminated, of breast, during endocrine therapy, 744, 750

Photometry, photographic, of nuclei, 783

Pituitary, histology of, in hyperplasia, stromal of, ovary, findings in, 1229

in pregnancy, 1230, 1233

in hyperplasia, stromal, of ovary, 1227-1234

metastases to, from carcinoma, of breast, regression of tumor in, 1229

in pregnancy, 1227-1234

PLACHTA, AARON, and SIEKA, FRANCIS D.: Apocrine gland adenocarcinoma and extramammary Paget's disease of the vulva. Review of the literature and report of a case, 910-919

Pleura, fibrosarcoma of, effusions from, cells of, 1179

mesothelioma of, effusion from, cells of, 1179

Pneumococci, sterilization of, by tobacco smoke, 1107

Pneumonitis, effusions from, histopathology of, 1163

Pneumothorax, as complication, of thyroidectomy, 1093

Poly, *sz.*, angiobroma, nasopharyngeal, juvenile, 26

of uterus, carcinomatous change in, 722

POORE, JOHN B.; MERMANN, ALAN C., and YU, JULIA S.: Adrenal-cortical carcinoma and melanocarcinoma in a 5-year-old Negro child, 1235-1241

Portal tract, round-cell accumulation in, significance of, 1143

Portal vein, obstruction of, effusion from, histocytology of, 1164

PRATT, JOSEPH H., *jt. su.*, 893-898

Pregnancy, and adenoma, of breast, 320

and breast, normal, morphology of, 56

and carcinoma, of breast, 51

Hodgkin's disease, 933

and pituitary, 1227-1234

Pregnancy, *cont'd*

and tumor, mucinous, of ovary, 303

Prostate, adenocanthoma of, metastatic, 1247

adenocarcinoma of, effusion from, cells of, 1178

cancer of, early, diagnosis of, by biopsy, open perineal, 690-693

metastases from, 702, 1246-1248

spread of, routes of, 1247

carcinoma of, in aged, pathology of, 138

classification of, 691

cytology of, exfoliative, 697, 700

diagnosis of, by clinical examination, 692, 697

at 80 or more years, 136-141

intraepithelial, 700

origin of, sites of, 139

Prosthesis, metallic, buried, for defects, of mandible, 1002-1009

Protein, of nucleus, 791

total of, serum, in carcinoma, disseminated, of breast, during endocrine therapy, 744, 747, 748

Proteinuria, from pt-ethionine, 868

Pseudohypophysectomy, in cancer, of breast, 334, 763

Psychosis, toxic, from pt-ethionine, 869

Puberty, precocious, with carcinoma, adrenal-cortical, 1235, 1238

and melanoma, 1238

with tumors, estrogenic, of ovary, 523

PUND, E. R., *jt. su.*, 729-743

Pyrogenic reactions, from azaserine, 807

QUAN, STUART, *jt. su.*, 774-778, 1020-1028

Radiation, from Au¹⁹⁸, colloidal, intravenous, 856-866

postoperative, after thyroidectomy, 1091

resistance to, of tumors, of ovary, 533

total-body, lethal, of mice, effect of

testosterone cyclopentylpropionate, on morbidity and mortality, 617-621

effect of testosterone propionate, on morbidity and mortality, 617-621

Radioautography, of sarcoma, osteogenic, bone of, 817

Radiography, in leiomyosarcoma, primary, of lung, 258

Radiotherapy, for angiobroma, nasopharyngeal, juvenile, 16

of cystadenocarcinoma, mucinous, of ovary, 305

for fibromatosis, juvenile, 971

in malignant change, of tumor, giant-cell, of bone, 771

of tumor, granulosa-cell, of ovary, 534

of salivary glands, 648

complications of, 656

Radium therapy, reaction to, systemic factors in, of epithelium, cervical, 504-518

of tumor, giant-cell, of bone, 770

REAGAN, JAMES W., *jt. su.*, 1155-1166, 1167-1181

Rectovaginal septum, adenocarcinoma of, primary, from endometriosis, 893-898

Rectum. *See also* Anal canal; Anal duct; Anus; Colon

cancer of, surgery for, palliative, 1016-1019

carcinoma of, colloid, pseudoinflammatory, 1020-1028

case reports of, 1022-1028

clinical course of, 1020

histology of, 1021

Recurrence, in adenocarcinoma, acinic-cell, of salivary glands, 646

cystic, adenoid, of salivary glands, 646

in cancer, of breast, statistics on, 29-46

types of, 30

in tumor, granulosa-cell, of ovary, 533

salivary-gland, 654

Recurrent nerve, paralysis of, after thyroidectomy, 1092

in surgery, for tumors, of thyroid, 1080

Regression, spontaneous, of angiobroma, nasopharyngeal, juvenile, 16, 27

Renal disease, effusions from, histocytology of, 1162

Respiratory tract, complications of, in patient, poor-risk, for surgery, 982

Reticuloblastomatosis, diagnosis of, differential, histopathology of, 170

Letterer-Siwe syndrome and, 168-178

leukemia, 168-178

vs. xanthomatosis, disseminate, 174

Reticulo-endothelium, uptake by, of Au¹⁹⁸, colloidal, intravenous, 864

Rhabdomyomatosis, congenital, of heart, 557

histology of, 559

Rhabdomyosarcoma, of breast, 340, 349, 350

polyoid. *See* Sarcoma botryoides of uterus, 711

RICHARDSON, AUBREY D., *jt. su.*, 852-855

RICHARDSON, H. L.; O'NEAL, M. A.; ROBERTSON, C. H., and GRIFFIN, A. C.: The role of hormones in azo-dye induction of liver cancer and the adrenal-lipoid response in hypophysectomized rats, 1044-1047

ROBBINS, GUY F.; BROTHERS, JAMES H., III; EBERHART, WARREN F., and QUAN, STUART: Is aspiration biopsy of breast cancer dangerous to the patient? 774-778

ROBERTSON, C. H., *jt. su.*, 1044-1047

Roentgenotherapy, fibromatosis following, 149-158

fibrosarcoma following, 149-158

of Hodgkin's disease, 929

generalized, 931

of metastases, to brain, 682-689

technique of, 682

postoperative, in Hodgkin's disease, 928

of tumor, giant-cell, of bone, 770

of glands, mucous, oral, 231

ROOT, SAMUEL W.; ANDREWS, GOULD A.; KNISELEY, RALPH M., and TYOR, MALCOLM P.: The distribution and radiation effects of intravenously administered colloidal Au¹⁹⁸ in man, 856-866

RUBIN, CYRUS E., and MASSEY, BARBARA W.: The preoperative diagnosis of gastric and duodenal malignant lymphoma by exfoliative cytology, 271-288

SAHAGIAN-EDWARDS, ALEX., and HOLLOWAY, JAMES F.: Metastatic carcinoma to the adrenal glands with cortical hypofunction, 1242-1245

Salivary glands, adenocarcinoma of, clinical course of, 646

carcinoma of, squamous, 647

major, tumors of, clinical aspects of, 637-659

tumors of, clinical course of, 645

clinical findings in, 643

diagnosis of, 641

differential, 642

malignant, treatment of, end results of, 656

mixed, benign, malignant change in, 644

surgery of, complications of, 654

symptoms of, 642

treatment of, principles of, 647

prognosis after, 657

Sarcoma, of breast, *vs.* angiobroma, 592

of endometrium, 709

origin of, from carcinoma, 722

osteogenic, azaserine for, 802

of bone, 769

biophysical studies on, 815-825

of breast, 348

effusion from, cells of, 1179

phosphatase of, acid, 96

primary, of liver, 498

reticulum-cell, azaserine for, 802

types of, frequency of, in Chinese, 429

of vein, 161

T241, metastases of, 437

Sarcoma botryoides, 705, 709, 723

of female urogenital tract, 75-91

histogenesis and pathogenesis of, 86

histopathology of, 77, 80, 82, 84, 91

synonyms of, 76

of urogenital tract, female, case reports of, 77-86

SCHLOSSER, JOSEPH V., *jt. su.*, 331-334, 758-763

SCHORNBERG, HARRY W., *jt. su.*, 663-670

Schwannoma, of peroneal nerve, 725-728

SEGALOFF, ALBERT.; CARABASI, RALPH; HORWITT, BENJAMIN N.; SCHLOSSER, JOSEPH V., and MURISON, PAUL J.: Hormonal therapy in cancer of the breast. VI. Effect of ACTH and cortisone on clinical course and

INDEX OF ORIGINAL ARTICLES

hormonal excretion, 331-334

GORDON, DOUGLAS; CARABASI, RALPH A.; HORWITT, BENJAMIN N.; SCHLOSSER, JOSEPH V., and MURISON, PAUL J.: Hormonal therapy in cancer of the breast. VII. Effect of conjugated estrogens (equine) on clinical course and hormonal excretion, 758-763

Sesame oil, as carcinogen, 905

fibrosarcoma from, 905-909

SHANKMAN, S., *et al.*, 289-290

SHARP, GEORGE S.; HAZLET, JOHN W., and SHANKMAN, S.: Gastric analysis without intubation, 289-290

SHIMKIN, MICHAEL B.: Pulmonary-tumor induction in mice with chemical agents used in the clinical management of lymphomas, 410-413

LUCIA, E. L.; LOW-BEER, B. V. A., and BELL, H. G.: Recurrent cancer of the breast. Analysis of frequency, distribution, and mortality at the University of California Hospital, 1918 to 1947, inclusive, 29-46
et al., 383-390, 867-872

Shoulder, fibromatosis of, juvenile, 963, 965

SIMMONS, CHANNING CHAMBERLAIN, (1877-1953), Frontispiece, facing p. 1

Sinus, frontal, cancer of, surgery for, 991-994

Sinus cavities, skin graft in, free, 444

Skin, carcinomas of, metastases of, to brain, 682

hidradenoma of, clear-cell, 934-952

Skin graft, free, in head and neck, complications of, 454

contraindications to, 453

in surgery, radical, of head and neck, 444-454

SMITH, ALBERT G.; BROADBENT, THOMAS RAY, and ZAVALETA, A. A.: Tumors of oral mucous glands, 224-233

SMITH, ROBERT CRAFT, *et al.*, 704-724

SMITH, ROBERT R.; KLOPP, CALVIN T., and WILLIAMS, JONATHAN M.: Surgical treatment of cancer of the frontal sinus and adjacent areas, 991-994

Smoking. *See* Tobacco

Somagram, diagnosis by, 355

Somatoscope, principle of, and technique of using, 354

SOMMER, SHELDON C., *et al.*, 437-443

SOUTHAM, CHESTER M.: Growth of human adenocarcinoma cells in tissue culture, 394-409
et al., 106-118

SPER, FRANCIS D., *et al.*, 910-919

SPELMAN, MITCHELL W.; CARLSON, JAMES C., and LILLEHEI, C. WALTON: The effects of testosterone propionate and testosterone cyclopentylpropionate upon morbidity and mortality in mice following lethal total-body irradiation, 617-621

SPENCE, ISOBEL, *et al.*, 1109-1154

Sperm, chromosomes of, mass of, organic measurement of, 873-883

Spermatogenesis, effect of colchicine on, 615

Spleen, pathology of, after colchicine, 609

in reticuloblastomatosis, 171

uptake by, of ^{198}Au , colloidal, intravenous, 863

SPROUL, EDITH E., *et al.*, 690-703

STANYON, JACK H., *et al.*, 168-178

Statistics, age of adenocarcinoma, of bladder, 132

in cancer, recurrent, of breast, 33

of carcinoma, in Chinese, 465

primary, of liver, 465

of prostate, 136-141, 691

at initial treatment, in cancer, recurrent, of breast, 30, 32, 33

of tumors of salivary glands, 639

frequency, of cancer, recurrent, of breast, 29-46

in carcinoma, of breast, 48

incidence, of adenoma, of bronchus, 665

of cancer, of lung, smoking and, 247

in carcinoma, of breast, 48

primary, of liver, 466

of prostate, age and, 137

of cylindroma, 665

of hypertrophy, giant, of mucosa, of stomach, 676

of metastases, to brain, 682

intracranial, 260

Statistics, incidence, *cont'd*

of tumors, benign, of breast, 319

malignant, in Chinese, esp. in Formosa, 425-436

of salivary glands, 638

methods of, in analysis, of cancer, of breast, recurrent, 31

mortality, from cancer, 1100

postoperative, after gastrectomy, total, 1010-1015

race, in carcinoma, primary, of liver, 466

in tumors, malignant, in Chinese, 425-436

sex, in carcinoma, primary, of liver, 466

in tumors, malignant, in Chinese, 426, 427

of salivary glands, 639

site, of tumors, malignant, in Chinese, 426, 427, 432, 433

socioeconomic, of cancer, of stomach, in New Haven, 455-461

survival, age and, in cancer, recurrent, of breast, 38

in angiiosarcoma, of breast, 592

in cancer, of breast, 775

recurrent, factors in, 40

initial treatment and, 34

type of, 41

of prostate, 693

recurrent, of breast, 29-46

in carcinoma, of breast, 50

in cystadenocarcinoma, mucinous, of ovary, 305

in cystadenoma, mucinous, of ovary, 305

in surgery, major, in aged, 989

STEARNS, MAUS W., JR., and BINKLEY, GEORGE E.: Palliative surgery for cancer of the rectum and colon, 1016-1019

STEINER, PAUL E., *et al.*, 462-503

STERNBERG, STEPHEN S.: Pathology of juvenile nasopharyngeal angiofibroma—a lesion of adolescent males, 15-28

CLARKE, DONALD A., and PHILIPS, FREDERICK S.; with the assistance of WHEELOCK, BARBARA: Gastric ulcer and pancreatitis in rats given 2-chlorosadenosine or adenosine, 291-301

and FERGUSON, FRANK C., JR.; with the assistance of THEODORE, PATRICIA S.: Colchicine. III. Pathology and hematology in cats and rats, 607-616
et al., 801-814

STERNBERG, WILLIAM H.; CLARK, WALLACE H., and SMITH, ROBERT CRAFT: Malignant mixed müllerian tumor (mixed mesodermal tumor of the uterus). A study of twenty-one cases, 704-724

Stilbamidine, noncarcinogenic for mice, 411

Stilbestrol, diethyl, for cancer, advanced, of breast, 55

for carcinoma, advanced, of cervix, 1029-1030

disseminated, of breast, 745

STOHLANSKI, ALFRED, *et al.*, 873-883

Stomach. *See also* Gastrectomy, total acidity of, CEIQ test for, 289

adenosine effect on, 297

cancer of, distribution of, socioeconomic, in New Haven, 455-461

carcinoma of, and hypertrophy, giant, of mucosa, gastric, 673, 680

2-chloroadenosine effect on, 293, 294

lymphoma of, malignant, cytology of, exfoliative, 271-288

mucosa of, hypertrophy of, giant, 671-681

treatment of, 675

STOTT, DOROTHY A., *et al.*, 354-358

STOUT, ARTHUR PURDY: Juvenile fibromatoses, 953-978
et al., 335-353, 690-703

STUMPF, HARRY H.: Diffuse, mixed-type mesothelioma of the peritoneum. A case demonstrating the multopotentiality of the malignant mesothelial cell, 142-148

STURGEON, PHILLIP, and DALE, MILDRED B.: A survey of the heights and weights of a childhood leukemic population, 849-851

Sublingual salivary glands, anatomy of, surgical, 631

tumors of, 639

Submaxillary salivary glands, anatomy of, surgical, 631

Testis, tumor of, malignant, effusion from, cells of, 1178

Testosterone, for carcinoma, disseminated, of breast, 745

Testosterone cyclopentylpropionate, effect of, on morbidity and mortality, of mice, after radiation, total-body, lethal, 617-621

of, surgical, 649

dissection of, 653

tumors of, 639

SUGIURA, KANEMATSU, *et al.*, 779-800

Surgery, for adenoma, of breast, 324

of bronchus, end results of, 668

for cancer, of ear, technique of, 996

of sinus, frontal, 991-994

technique of, 993

for carcinoma, cylindromatous type, of bronchus, end results of, 668

of cystadenocarcinoma, mucinous, of ovary, 305

of cystadenoma, mucinous, of ovary, 304

for cystosarcoma phyllodes, results of, 343

for fibromatosis, juvenile, 971

in Hodgkin's disease, 928

for hypertrophy, giant, of mucosa, of stomach, 675

incomplete, of tumors, of thyroid, management of, clinical, 1078

for leiomyosarcoma, primary, of lung, 258

major, for cancer, in aged, prognosis of, 988-990

results of, 989

for patient, poor-risk, evaluation of, 979-987, 1011

preparation for, 979-987

of mandible, prosthesis for, defects of, metallic, buried, 1002-1009

procedure for, 1009

mortality in, postoperative, after gastrectomy, total, 1010-1015

of myxoma peritonei, 305

palliative, for cancer, of colon and rectum, 1016-1019

radical, of head and neck, free skin graft in, 444-454

technique of, 444

of teratoma, sacrococcygeal, technique of, 1042

in tumor, giant-cell, of bone, 770

of glands, mucous, oral, 231

of ovary, 533

of salivary glands, 648

subternal, of thyroid, 1086

of thyroid, 1063-1099

complications of, hemorrhage, post-operative, into wound, 1093

pneumothorax, 1093

drainage in, 1091

frozen-section examination in, immediate, 1074

jugular vein in, internal, excision of, 1090

laryngectomy with, total, 1087

neck dissection in, bilateral, 1077, 1089

unilateral, routine, 1075

parathyroids in, 1082

principles of, basic, 1073

surgery for, trachea involved in, 1087

technique of, 1079-1092

for xeroderma pigmentosum, with carcinoma complicating, 377-382

Sweat gland, carcinoma of, squamous-cell, of breast, 49

embryology of, 917

normal, tissue culture of, 402

physiology of, 917

Syndrome, Letterer-Siwe, reticuloblastomatosis and, 168-178

Synovioma, malignant, effusion from, cells of, 1179

Tampon, vaginal, in cytology, exfoliative, 1182-1184, 1185-1190

TELOR, H. A.: Apocrine adenoma of the anus, 367-372

Teratoma, malignant, of breast, 348

of ovary, 306

sacrococcygeal, 1031-1043

case reports of, 1032-1038

diagnosis of, 1031

malignant, 1039, 1040

occurrence of, factors in, 1039

surgery for, technique of, 1040

Test, CEIQ, in gastric analysis, technique of, 289

Testis, tumor of, malignant, effusion from, cells of, 1178

Testosterone, for carcinoma, disseminated, of breast, 745

Testosterone cyclopentylpropionate, effect of, on morbidity and mortality, of mice, after radiation, total-body, lethal, 617-621

Testosterone propionate, for carcinoma, disseminated, of breast, 745
effect of, on morbidity and mortality, of mice, after radiation, total-body, lethal, 617-621

Thailand, tumors of, malignant, frequency of, 433

Thecoma, of ovary, 522

THIODORE, PATRICIA S., *jt. au.*, 607-616

Thigh, fibromatosis of, juvenile, 964, 967
hemangiopericytoma of, 597

Thiourea, carcinoma, primary, of liver, induced by, 468
effect of, on hyperplasia, bile-duct, intrahepatic, 1137

THOMAS, LOUIS B., *jt. au.*, 54-74

Thoracic duct, obstruction of, effusion from, histocytology of, 1164

Thymoma, malignant, effusions from, cells of, 1178

Thymus, pathology of, after colchicine, 609

Thyroid, adenoma of, cancer and, 1069
Hürthle cell, 235
anatomy of, lymphatic of, 1066
parathyroid and, 1066
recurrent nerves and, 1064
surgical, 1064
cancer of, advanced, management of, palliative, 1095
management of, end results of, 1096
metastases of, cervical, precocious, 1071
carcinoma of, Hürthle cell, 237
clinical findings in, 238
histopathology of, 238
metastases to, of brain, 682
metastases to, from carcinoma, primary, of liver, 495
nodules of, involutorial, Hürthle cells in, 235
tumor of, biopsy in, indications for, 1070
cancer in, incidence of, 1068
diagnosis of, differential, 1067
Hürthle-cell, 234-244
"lateral aberrant," 1071
pathology of, surgical, 1067
prognosis in, 1097
radiation for, postoperative, 1091
recurrent, 1074
substernal, extension of, 1066
surgery for, 1063-1099
complications of, recurrent-nerve palsy in, 1092
thyroid deficiency, 1094
drainage in, 1091
incomplete, management of, clinical, 1078
lymphedema of face after, 1095
neck dissection in, bilateral, 1077, 1089
unilateral, routine, 1075
parathyroid deficiency after, 1094
principles of, basic, 1073
recurrent-nerve palsy after, 1092
terminology of, 1069, 1070
of uncertain character, management of, 1073

Thyroidectomy, effect of, on hyperplasia, bile-duct, Coward's diet and, 1138

Ticonium, for prosthesis, buried, for mandible, defects of, 1002

Tissue culture, of adenocarcinoma, human, 394-409
reimplantation of, results of, 408
results of, 397

of metastases, to lymph node, of adenocarcinoma, 404
technique of, for adenocarcinoma, human, 397
cellulose sponge in, 408

Tobacco, and cancer, of lung, 245-249
as inhalant, in cancer, of lung, 1104
smoking of, evaluation of, formula for, 247

Trachea, carcinoma of, cylindromatous type, 663-670
invasion of, by cancer, of thyroid, surgery for, 1087

Tracheostomy, in surgery, for cancer, of thyroid, 1088

Transplantation, tumor capacity for, metastasizability and, 218

TAEVES, NORMAN: Paget's disease of the male mamma. A report on two cases, 325-330

Triethylenemelamine, in Hodgkin's disease, generalized, 932
lung-tumor inducing, in mice, 410

Tuberculosis, effusions from, histocytology of, 1162

Tumors. *See also* specific names of
age-linked, 28
benign, phosphatase of, acid, 95
Dougal's, of ovary, 522
estrogenic, of ovary, clinicopathological study of, 522-538
giant-cell, of bone, 764-773
of tendon sheath, 769
of glands, mucous, oral, 224-233
granulosa-cell, of ovary, 522
and thecoma-fibroma, relationship of, 535

Hürthle-cell, of thyroid, 234-244
malignant, of heart, in infancy, 561
mesodermal, mixed, of uterus, 704-724
mixed of mouth, 226
mouse, nuclei of, nucleic acid of, 779-800

mucoepidermoid, of mouth, 226
müllerian, mixed, malignant, nomenclature for, 723
of uterus, 704-724
histogenesis of, 717
multiple, 304, 306, 318, 342, 363, 377
See also Cancer, multiple
of ovary, 533
of parathyroid, 1072
pigmented, of children, classification of, 565
primary, of heart, in children, 549-563
of veins, 161

salivary-gland, classification of, histological, 638
major, clinical aspects of, 637-659

Sertoli-cell, of ovary, 522, 534

sex-linked, 28

size of, and metastases, to lung, number of, 437-443
of thyroid, surgery for, 1063-1099

Wartthin's, of mouth, 226

Tunica vaginalis, adenocarcinoma of, papillary, effusion from, cells of, 1179

TYR, MALCOLM P., *jt. au.*, 858-866

Ulcer, gastric, in rat, from adenosine, 291-301
2-chloro, 291-301

Ultrasonic radiation, in detection of carcinoma, of breast, 354-358

Urethane, lung-tumor inducing, in mice, 410

Urogenital tract, female, sarcoma botryoides of, 75-91

Urticaria pigmentosa, *vs.* reticuloblastomatosis, 174

Uterus. *See also* Endometrium
carcinoma of, histology of, 708
types of, 715
chondrosarcoma of, 713
fibrosarcoma of, 713
leiomyoma of, 913
leiomyosarcoma of, 704, 713
rhabdomyosarcoma of, 711
sarcoma of, histology of, 708
phosphatase of, acid, 96

tumor of, malignant, effusions from, cells of, 1175
mesodermal, mixed, 704-724
müllerian, mixed, malignant, 704-724
clinical findings in, 704
histogenesis of, 717
pathology of, 705
treatment of, 707

Wilms's-tumor-like, 714, 717

Vaginal fluid, β -glucuronidase of, in cancer, of cervix, sex-hormone treated, 732, 741

premenopausal, β -glucuronidase of, and cancer, in situ, of cervix, 729-743

Vein, femoral, leiomyosarcoma of, primary, 159-162

Vein, cont'd
tumors of, primary, 161

VELKOFF, CYRIL L., *jt. au.*, 266-270

Vertebrae, metastases to, from carcinoma, primary, of liver, 495

Viet Nam, South, tumors in, malignant, frequency of, 433

Virus, in treatment, of cancer, advanced, 106-118
lesions following, 108
localization of, 108
pathological findings in, 109
types of, in treatment, of cancer, advanced, 106

Vitamin A, and carcinoma, primary, of liver, 1109-1154

Vulva, leukoplakia of, 914
Paget's disease of, extramammary, and adenocarcinoma, apocrine-gland, 910-919

WALSH, THOMAS S. JR.: Buried metallic prosthesis for mandibular defects, 1002-1009

WARREN, SHIELDS, *jt. au.*, 437-443

WATANABE, SATORU: The metastasizability of tumor cells, 215-223

WATKINS, CHARLES H., *jt. au.*, 179-189

WATSON, WILLIAM L., and ANLYAN, ALEXANDER J.: Primary leiomyosarcoma of the lung, 250-258

and CONTE, ALEXANDER J.: Smoking and lung cancer, 245-249

WAUGH, JOHN M., *jt. au.*, 671-681

Weight of children, leukemic, 849-851

WHEELER, J. D., and HILL, WILLIAM T.: Adenocarcinoma involving the urinary bladder, 119-135

WHEELOCK, BARBARA, *jt. au.*, 291-301

WHITE, LAURENS P., and SHIMKIN, MICHAEL B.: Effects of DL-ethionine in six patients with neoplastic disease, 867-872
jt. au., 383-390

WILLIAMS, HERBERT F.: Melanoma with fatal metastases in 5-year-old girl. Report of a case, 163-167

WILLIAMS, JONATHAN M., *jt. au.*, 991-994

WILLIAMS, ROBERT R.; DAHLIN, DAVID C., and GHORMLEY, RALPH K.: Giant-cell tumor of bone, 764-773

Wilms's tumor, areas resembling, in tumor, of uterus, 714, 717
effusion from, cells of, 1178
frequency of, in Chinese, 429

WILSON, CHARLOTTE, *jt. au.*, 1200-1226

WOGLOM, WILLIAM HENRY, (1879-1953), Frontispiece, facing p. 215

WOOD, J. SUMNER, JR.; HOLYOKE, E. DOUGLAS; CLASON, W. PAGE C.; SOMMERS, SHELDON C., and WARREN, SHIELDS: An experimental study of the relationship between tumor size and number of lung metastases, 437-443

WOODARD, HELEN Q.; ESCHER, GEORGE C., and FARROW, JOSEPH H.: Changes in the blood chemistry of patients with disseminated carcinoma of the breast during endocrine therapy, 744-757

WOODCOCK, A. S., *jt. au.*, 522-538

WOOLNER, LEWIS B., *jt. au.*, 564-585

WRIGHT, ARTHUR W., *jt. au.*, 549-563

WROBLEWSKI, FELIX, *jt. au.*, 979-987

Xanthomatosis, disseminate, *vs.* reticuloblastomatosis, 174

Xeroderma pigmentosum, with carcinoma and melanocarcinoma, 377-382

YEH, SHU, and COWDRY, E. V.: Incidence of malignant tumors in Chinese, especially in Formosa, 425-436

YU, JULIA S., *jt. au.*, 1235-1241

ZARAFONETIS, C. J. D.; CURTIS, A. C., and KIRKMAN, L. W.: Para-aminobenzoic acid therapy in lymphoblastoma cutis and mycosis fungoides, 190-201

ZAVALETAS, A. A., *jt. au.*, 224-233

INDEX OF SELECTED CANCER ABSTRACTS

Abdomen, 625
 ABRAMS, J., *jt. au.*, 415
 ACAROTHERS, E. L., *jt. au.*, 204
 Achlorhydria, in adenoma, of stomach, 205
 Acid. *See also* specific names of lymphokentric, in leukemia, 424
 myelokentric, in leukemia, 424
 ACKERMAN, L. V., *jt. au.*, 422, 838
 ADAMS, W. S., 841; *jt. au.*, 636
 Adenocarcinoma, of breast, thio-TEPA for, 623
 cerebral, cells of, in cerebrospinal fluid, 1061
 clear-cell, (hypernephroid), of ovary, 1056
 of colon and sigmoid, operation for, repeated, 629
 of duodenum, 205
 of lung, 422
 metastases of, to lymphosarcoma, 1048
 of ovary, chromosomes of, 844
 papillary, of thyroid, metastatic to neck, lateral, 1055
 of thyroid, 833
 Adenoma, bronchial, in child, 843
 of epididymis, histogenesis of, müllerian epithelial vestiges in, 836
 invasive, of thyroid, 1055
 multicentric, of pituitary, after radiothyroidectomy, 1055
 of parathyroid, roentgenography in, 1054
 of testis, *vs.* hyperplasia, interstitial-cell, 636
 tubular, benign, of kidney, malignant change in, 835
 Adrenals, 631, 832, 1054
 cortex, adenoma of, and hypertension, "essential," 832
 hyperplasia of, focal, in hypertension, "essential," 832
 histopathology, of cortisone-induced changes, 622
 medulla, tumors of, surgery for, 832
 metastases to, of carcinoma, of breast, 631
 tumors of, functioning, in childhood, management of, 631
 Adrenalectomy, bilateral, for cancer, advanced, clinical and metabolic studies on, 625
 for carcinoma, of prostate, metabolism in, 635
 for metastases, of cancer, of breast, 1050
 "bloodless," 1059
 in cancer, advanced, changes induced by, 827
 in carcinoma, of prostate, 1058
 physiological changes induced by, 827
 thoracolumbar approach for, extrapleural, technique of, 624
 ALBERTINI, A. VON, 632
 Albino, Bantu, skin cancer in, management of, 210
 Allergic reactivity, test compounds for, 838
 Allergy, lymphoblastoma and, 837
 ALLEY, R. D., *jt. au.*, 834
 ALMY, T. P., *jt. au.*, 627
 ALTMAN, S. F., *jt. au.*, 631
 ALLENAUER, R. L., 419
 Ampulla of Vater, tumors of, radiography of, 831
 Amyloidosis, histogenesis of, 827
 Anatomical regions, 625, 1050
 ANDERSON, F. M., 211
 ANDERSON, W., *jt. au.*, 1057
 ANDREASSEN, M., 828
 ANDREWS, G. A., *jt. au.*, 414
 Androgens, for cancer, of breast, metastatic, 1050
 Androsterone, in carcinoma, of prostate, 1058
 Anemia, pernicious, as sequela, of gastrectomy, subtotal, 205
 Angiofibroma, of nasopharynx, surgery for, technique of, 624
 Angiography, of tumors, metastatic, intracerebral, diagnosis by, 421
 Anthanthrene, of air, as carcinogen, 844
 Anus, 630
 carcinoma of, squamous-cell, management of, 630
 Appendix, 206
 carcinoma of, management of, 206

Argentaffinoma, of duodenum, 205
 ARNOLD, A., 827, 1062
 Arthroblastoma, classification and histogenesis of, 835
 Ascites, in carcinomatosis, peritoneal, pathogenesis of, 625
 Ascites carcinoma, Ehrlich, as test tumor, in chemotherapy, 214
 ASTLER, V. B., 1052
 Astrocytoma, of spinal cord, 211
 Au¹⁹⁸. *See also* Gold, radioactive
 for carcinoma, of prostate, 1059
 parametrial injection of, localization of, sites of, 414
 AUB, J. C., *jt. au.*, 204
 AUSKER, A. H., 422
 Azobenzene, 3'-methyl-4-dimethylamino, and adrenocorticotropin, tumors of liver after, 214

B10-neutron-capture therapy, in glioblastoma multiforme, 623
 BACHMAN, A. L., *jt. au.*, 1056
 BACON, H. E., 629; *jt. au.*, 831
 BAILEY, P., *jt. au.*, 827, 1062
 BAKER, W. A., *jt. au.*, 834
 BALLIN, J. C., 424; *jt. au.*, 424
 Bantu, Forest, of Cameroun, tumors of, 1048
 South African, albino, skin cancer in, management of, 210
 skin cancer in, 210
 BARGEN, J. A., 830; *jt. au.*, 628
 BARRINGER, P. L., 628
 BASSETT, S. H., *jt. au.*, 841
 BAUMGARTNER, J. C., *jt. au.*, 1048
 BAUMRUCKER, G., *jt. au.*, 635
 BEACONSFIELD, P., 628
 BELKNAP, E. L., *jt. au.*, 832
 BELLWIN, A., 419
 BENNETT, W. A., 622
 Benodaine, in diagnosis, of pheochromocytoma, 833
 BENOT, H. W., Jr., 422
 1,2-Benzanthracene, 9,10-dimethyl-, with croton oil, and tumors, of skin, of mouse, 214
 1,2-Benzpyrene, of air, as carcinogen, 844
 3,4-Benzpyrene, of air, as carcinogen, 844
 Betatron, 23-Mev x-rays from, 827
 BETHARD, W. F., *jt. au.*, 209
 BIBACK, S. M., *jt. au.*, 834
 BIMES, C., *jt. au.*, 1055
 Biopsy, aspiration, advantages of, 1048
 contraindications for, 1049
 of cysts, of breast, 1050
 needle. *See also* Biopsy, aspiration in carcinoma, of prostate, 208
 of stomach, gastric tube for, improved, 418
 transurethral, in carcinoma, early, of prostate, 1059
 BÖRCK, G., *jt. au.*, 1052
 BIRKE, G., 1058
 BÖRKE, G., *jt. au.*, 1052
 BLACK, B. M., 632
 BLACK, M. M., 1050
 BLACKBURN, C. M., *jt. au.*, 632
 BLACK-SCHAFER, B. 420
 Bladder, 634, 835, 1058
 cancer of, in Africans, of Cameroun, 1048
 infiltrating, cystectomy for, simple, end results of, 635
 resection for, segmental, end results of, 635
 in carcinoma, of cervix, 208
 carcinoma of, cystectomy for, earlier, 835
 in male veterans, 843
 multicentric, 835
 tumors of, classification of, 1058
 Bladder Tumor Registry, Armed Forces Institute of Pathology, 1058
 BLADES, B., 842
 BLOCK, M., 209
 BLOEDORN, F. G., *jt. au.*, 834
 Blood. *See also* specific names of diseases of
 cells of, in leukemia, preleukemic phase of, 209
 Blood count, changes in, in preleukemic

phase, of leukemia, acute, 209
 Blood vessels, invasion of, by carcinoma, 629
 of thyroid, as criterion of malignancy, 1055
 BLOOM, D., 1062
 BLUEFARB, S. M., *jt. au.*, 837
 BLUMENTHAL, H. T., 1054
 BLUNDON, K. E., 636
 BOLT, R. J., *jt. au.*, 831
 Bone, cancer of, Ga⁶⁷ unsuitable for, 414
 diseases of, Ga⁶⁰ and Ga⁶⁷ for, 1061
 dysplasia of, fibrous, café au lait spots with, 842
 metastases to, from carcinoma, of breast, hypercalcemia and, 828
 in neuroblastoma, 210
 osteoma of, osteoid, natural history of, 1061
 sarcoma of, reticulum-cell, management of, 841
vs. other tumors, 841
 Bone marrow, blood flow in, I₁₃₁ clearance showing, in cancer, 420
 I₁₃₁ β-particle energy absorbed by, 836
 6-mercaptopurine effect on, 212
 pressure upon, in leukemia, 837

Book reviews:

GUERIN, MAURICE: Tumeurs spontanées des animaux de laboratoire (souris-rat-poule). [Spontaneous Tumors of Laboratory Animals (Mouse-Rat-Fowl).], 1062
 HOFFMAN, JOSEPH G.: The Size and Growth of Tissue Cells, 843
 HOMBURGER, FREDDY, & FISHMAN, WILLIAM H., Eds.: The Physiopathology of Cancer, 212
 KANE, IRVING J.: Sectional Radiography of the Chest, 423
 KOTTMAYER, HANS LUDWIG: Carcinoma of the Female Genitalia, 207
 LEZIUS, A.: Die Lungenresektionen. [Resection of the Lung.], 210
 LINDSKOG, GUSTAV E., & LIEBOW, AVERILL A.: Thoracic Surgery and Related Pathology, 421
 MOORE, HORACE G., Jr., & HARRIS, HENRY N.: The Billroth I Gastric Resection; with Particular Reference to the Surgery of Peptic Ulcer, 1051
 PANAGIOLAOU, GEORGE N.: Atlas of Exfoliative Cytology, 826
 BOTHA, M. C., 1060
 Bowen's disease, 423
 BOWMAN, R. E., *jt. au.*, 419
 BOYCE, F. F., 842
 BOYD, D. P., 829
 BRADSHAW, H. H., *jt. au.*, 843
 Brain, medulloblastoma of, radiotherapy for, 840
 primate, irradiation of, glial-cell change after, 1062
 tumors of, localization of, radioactive iodinated human serum albumin for, 840
 Breast, 204, 415, 625, 828, 1050
 adenocarcinoma of, metastatic, thio-TEPA for, 623
 recurrent, thio-TEPA for, 623
 cancer of, adrenalectomy for, bilateral, 1050
 clinical and metabolic studies on, 623
 results of, 827
 hormones for, hypercalcemia in, 204
 in Africans, of Cameroun, 1048
 in cancer-detection clinic, 202
 childbearing and, 625
 and hyperplasia, ovarian cortical-stromal, 626
 castration and, 626
 inoperability of, criteria of, 415
 marriage and, 625
 metastases of, pulmonary, estrogens for, 623
 roentgenotherapy for, survival after, 416
 carcinoma of, bilateral, 415
 metastatic, to adrenal, 631
 to bone, hypercalcemia and, 828
 phosphatase in, alkaline, 828
 to lymph nodes, internal mammary and supraclavicular, 415
 sites of, survival and, 828

Breast, carcinoma of, *cont'd*
 pregnancy and, survival in, 626
 survival in, 416
 cystic disease of, aspiration of, 1050
 male, cancer of, in Africans, of Cameroon, 1048
 carcinoma of, inflammatory, 416
 management of, 205
 Page's disease of, prognosis in, 1050
 secretions of, cytology of, exfoliative, 826
 tumors of, diagnosis of, infrared phlebogram in, 416
 Broad ligaments, cancer of, and carcinoma of, cervix, pyelogram and, 208
 Bronchus, 210, 422, 842, 1061
 adenoma of, in child, 843
 carcinoma of, diagnosis of, by cytology, exfoliative, of sputum, 843
 inoperable, radiotherapy of, with compound I as radiosensitizer, results of, 624
 fibrosarcoma of, 423
 major, carcinoma of, squamous-cell, occult, 843
 Bronchography, in carcinoma, alveolar-cell, of lung, 1062
 BRUGER, M., 414
 BRUMER, H. D., *jt. au.*, 414
 BULLOCK, W. K., 631
 BUNKEE, M. L., *jt. au.*, 1057
 BUNTING, H., 838
 BUNTS, R. C., *jt. au.*, 636
 Butazolidin, in Hodgkin's disease, 838
 BUTLER, W. W. S., III, 635
 BUXTON, R. W., 417, 630

Calcification, in lesions, solitary, circumscribed, of lung, malignancy and, 210
 Cameroun, cancer in, 1048
 CAMPOS, J., *jt. au.*, 208
 Cancer. *See also* anatomical sites of; Statistics
 bilateral, of breast, 415
 environmental, atmospheric pollutants in, 844
 of lung, 212, 844
 hormones for, steroid, 212, 623, 1050, 1058
 metastases of, to cancer, 1048
 distribution of, 203
 origin of, 203
 multicentric, 1055
 multiple, and polyps, gastric, 205
 occupational, trauma in, as cocarcinogen, 203
 physiopathology of, book review, 212
 "scar" of lung, 423
 sites of, 12-year incidence, in Strang Cancer Prevention Clinic, Memorial Center, 202
 test for, blood-cell carboxypeptidase inhibitor for, 424
 treatment of, delay in, survival and, 203
 CAPRONI, M., 1048
 Carboxypeptidase, blood-cell, inhibitor for, as test for cancer, 424
 Carcinogen, atmospheric, aromatic hydrocarbons as, in Los Angeles, 844
 in cigarette tar, 848
 croton oil as, 213, 848
 20-methylcholanthrene as, 213
 oil as, 203
 croton, 213, 848
 shale, 213
 tobacco smoke as, 846
 Carcinogenesis, chemical, 212
 diet in, 212
 by hormones, 212
 mechanism of, new hypothesis of, 214
 Carcinoid, malignant, of small intestine, metastatic, to liver, and other lesions, constituting syndrome, 1052
 Carcinoma. *See also* anatomical sites of; Statistics
 adrenocortical, metastatic, with Cushing's syndrome, hypophysectomy in, 832
 alveolar-cell, of lung, bronchography in, 1062
 anaplastic, of lung, 422
 ascites, Ehrlich, as test tumor, in chemotherapy, 214
 basal-cell, growth rate of, histology and, 839
 of breast, transplanted, in mice, guinea-pig serum and, 213
 bronchogenic, chromosomes of, 844
 primary, frequency of, 1062
 untreated, regression of, spontaneous, 842
 Carcinoma, *cont'd*
 Ehrlich ascites, effect of various compounds on, 214
 of female genitalia, book review, 207
 granulosa-cell, of ovary, chromosomes of, 844
 intraepithelial. *See also* Carcinoma, in situ
 of cervix, pregnancy and, 634
 of lung, 423
 of lung, metastases of, to carcinoma, clear-cell, of kidney, 1048
 multicentric, of bladder, 835
 of thyroid, 633
 multiple, of colon, 1053
 production of, with cigarette tar, 848
 pseudodendromatous, basal-cell, of parotid, 417
 renal-cell, 832
 sebaceous-gland, of South African Bantu, 210
 in situ. *See also* Carcinoma, intraepithelial
 of bronchi, 843
 cytology of, exfoliative, 826
 in papilloma, of gallbladder, 206
 regression of, spontaneous, 207, 826, 1057
 untreated, reversibility of, 1057
 small-cell, of lung, 422
 squamous-cell, of lung, 422
 lymph-node involvement in, 207
 occult, of bronchi, major, 843
 of submaxillary gland, chromosomes of, 844
 of vagina, 834
 terminal bronchiolar, origin of, 423
 Carcinomatosis, peritoneal, ascites with, pathogenesis of, 625
 Cardiovascular system, 626
 Carotid body, chemodectoma of, metastatic, 625
 CARSON, M. J., *jt. au.*, 211
 CARSON, R. F., 633
 CASTLEMAN, B., *jt. au.*, 632
 Castration, for carcinoma, of breast, male, 416
 of prostate, 1058
 after mastectomy, effect of, with hyperplasia, ovarian cortical stromal, 626
 prophylactic, in carcinoma, of breast, 416
 Catecholamines, in diagnosis, of pheochromocytoma, 1054
 CAWLEY, E. P., *jt. au.*, 626
 Cecum, carcinoma of, from appendix, management of, 206
 Cell. *See also* specific names of; Cytology
 adhesiveness of, and metastases, 203
 blood, in preleukemic phase, of leukemia, acute, 209
 cortisone-induced changes in, in adrenal and pituitary, 622
 glial, changes in, after radiation, of brain, primate, 1062
 growth of, book review, 844
 nucleic acid of, desoxyribose, microspectrophotometric study of, 845
 size of, book review, 844
 thyroidectomy, 1055
 Cellulitis, emphysematosus, of leg, in carcinoma, of sigmoid, 628
 Cerebrospinal fluid, cells in, malignant, 1061
 films of, Romanowsky-stained, method for, 1061
 Cervix, 207, 418, 633, 834, 1056. *See also* Endometrium; Uterus
 cancer of, in cancer-detection clinic, 202
 invasive, and β -glucuronidase, of vaginal fluid, premenopausal, 418
 stages of, incidence of, 202
 in stump, delay in diagnosis of, 202
 carcinoma of, Au¹⁹⁸ for, by parametric injection, 414
 and hyperplasia, ovarian stromal, 419
 kidney in, 208
 preinvasive, and metaplasia, precancerous, 633
 pregnancy and, 634
 prognosis in, by cytology, exfoliative, 834
 radiation reaction in, pyelogram and, 208
 radiosensitivity of, exfoliative cytology showing, 833
 radium for, dosimetry of, 834
 squamous-cell, lymph-node involvement in, 207
 lymphatic drainage pathways from, 207
 metaplasia of, precancerous, and carcinoma, preinvasive, 633
 papillomas of, squamous, 834
 Chemodectoma, of carotid body, metastases of, 625
 Chemotherapy, 622
 and cancer, 212
 compounds for, Ehrlich ascites carcinoma as test tumor for, 214
 experimental, in cancer, negative data from, book review, 848
 CHERRY, C. P., 207
 CHESKY, V. E., 1055
 Chest, radiography of, sectional, book review, 423
 Children, adenoma of, bronchial, 843
 carcinoma of, of colon, 1053
 tumor of, of adrenal, functioning, 631
 ovarian, granulosa- and theca-cell, functional, Meig's syndrome with, 208
 malignant, granulosa-cell, 419
 spinal cord, 211
 Wilms's, 634
 Cholecystectomy, for papilloma, for gallbladder, 207
 Chordoma, reentgenotherapy for, rotation technique in, 840
 Chorioadenoma destruens, *vs.* choriocarcinoma, 1057
 Choriocarcinoma, of uterus, differential diagnosis of, 1057
 pathology of, 1057
 Choromene, of air, as carcinogen, 844
 Chromosomes, of tumors, human, 844
 Chrysene, of air, as carcinogen, 844
 Cigarette smoke, filtered, fluorescence measurements on, 847
 Cirrhosis, and cancer, of liver, in Africans, of Cameroun, 1048
 CLAGETT, O. T., *jt. au.*, 210, 829, 843, 1050
 CLARK, L. C., *jt. au.*, 631
 CLARK, M. L., *jt. au.*, 1058
 CLARKE, D. A., 211
 CLEVE, E. A., *jt. au.*, 1061
 Co⁶⁰, in retinoblastoma, 421
 Cocarcinogen, oil as, croton, 203
 trauma as, 203
 COHEN, L., *jt. au.*, 210
 COHEN, M., 632
 COHEN, P., *jt. au.*, 636
 COLBY, F. P., 208
 COLOCZ, B. P., 1050, 1052
 COLE, W. H., *jt. au.*, 633
 Coley's toxins, for sarcoma, reticulum-cell, of bone, 842
 Colitis, ulcerative, chronic, in cancer, 630
 and cancerous change, frequency of, 831
 COLLIER, F. A., *jt. au.*, 1052
 Colon, 628, 830, 1052
 adenocarcinoma of, surgery for, repeated, 629
 cancer of, recurrence of, metastases in, implantation, 831
 carcinoma of, blood-vessel invasion by, 629
 in childhood, 1053
 extension of, direct, prognosis and, 1052
 and hyperplasia, ovarian stromal, 419
 in male veterans, 843
 multiple, primary, distribution of, 1053
 surgery for, advances in, 1052
 distal, carcinoma of, metastases from, sites of, 629
 leiomyoma of, management of, 628
 leiomyosarcoma of, management of, 628
 lymphoma of, malignant, 830
 polyposis of, familial, and sebaceous-matosis, 1053
 hereditary in, 831
 polyps of, excision of, transcolonic, late results of, 628
 COLE, R., *jt. au.*, 1049
 COLSKY, J., *jt. au.*, 1049
 COMAN, D. R., 203
 COMFORT, M. W., *jt. au.*, 1051
 Compound I, as radiosensitizer, in radiotherapy, 623
 CONLEY, J. E., 832
 CONLEY, J. J., 624
 CONSBURGH, U., *jt. au.*, 846
 COOKE, J. V., 836
 COOKE, L., 206
 COOPER, J. A. D., 843
 COPE, O., 632
 Copper, in melanomas, and phenol-oxidizing enzyme system, 1060
 CORDONNIER, J. J., 835

Corticotropin, age and, 1054

Cortisone, adrenal induced by, histopathology of, 622

in carcinoma, of prostate, after adrenalectomy, bilateral, 635

with orchietomy, 1058

maintenance regimen of, after adrenalectomy, 827

pituitary changes induced by, histopathology of, 622

COSKIN, W. G., 1057

CRADDOCK, C. G., Jr., 636

CRONINGER, A. B., Jr., 848

Croton oil, as carcinogen, for mouse skin, 213, 848

as cocarcinogen, 203

with 9,10-dimethyl-1,2-benzanthracene, and tumors of skin, of mouse, 214

Cryptorchidism, and cancer, of testis, 1059

histopathology of, 1059

CULP, D. A., Jr., 848

CURTIS, A. C., Jr., 848

CURWIN, M. P., Jr., 848

Cushing's syndrome, with carcinoma, adrenocortical, metastatic, hypophysectomy in, 832

Cyst, of epididymis, histogenesis of, 836

of esophagus, 829

sebaceous, multiple, and polyposis, familial, of colon, 1053

Cystadenocarcinoma, papillary, of ovary, chromosomes of, 844

Cystadenoma, papillary, of sinus, maxillary, 842

Cytology. *See also* names of specific cell structures

of cancer, of endometrium, earliest findings in, 419

exfoliative, atlas of, book review, 826

in carcinoma, of prostate, 208

of cerebrospinal fluid, 1061

of cervix, criteria of malignancy in, 1056

of digestive tract, 826

of exudates, 826

and prognosis, in cancer, of cervix, 834

of respiratory tract, 826

of secretions, of breast, 826

of sputum, in carcinoma, of bronchus, 842

staining in, wet-film-methylene-blue, 843

of lens, of eye, after irradiation, 845

of mesothelioma, solitary, of pleura, 422

of metastases, of leiomyosarcoma, of stomach, 627

of papilloma, cutaneous, virus-like particles in, 838

of tumors, islet-cell, active, of pancreas, 832

Cytoplasm, inclusion bodies in, in rectal-polyp cells, 831

DARLIN, D. C., Jr., 841

DASH-IVERSEN, E., Jr., 828

DAILY, M. E., 632

DALAL, S. J., 1056

DANIELS, E., Jr., 832

DAO, T. L.-V., Jr., 848

DAVIES, D. F., Jr., 832

DAVIS, A. M., Jr., 845

DAVIS, J., Jr., 848

DAY, E., 202

DEAN, A. L., 1058

DEARING, R., 208; Jr., 848

Delay in carcinoma, of lung, causes of death and, 842

in diagnosis, of cancer, pelvic, 202

of carcinoma, of colon and rectum, 1052

in treatment, survival and, 203

DEMPSTER, K. E., Jr., 835

Desoxyribonuclease, inhalation of, bronchial epithelial cell changes after, 843

Diagnosis, 826, 1048

Diaphragm, lymphatics of, role in ascites, in peritoneal carcinomatosis, 625

Diet, in carcinogenesis, 212

Digestive tract, 205, 47, 627, 828, 1050

See also names of organs of cytology, of exfoliative, 826

Di-iodofluorescein, radioactive, in neoplasia, intracranial, localization of, 840

DOANE, W. A., Jr., 629

DOBRINER, K., 212

DOCKERTY, M. B., Jr., 848, 627, 628, 1051

DOLL, R., 423

DREKE, W. C., Jr., 848

DREW, C. E., Jr., 843

DRUCKERY, H., Jr., 846

DRUNGIS, A., Jr., 845

DUBILIER, W., Jr., Jr., 848, 634

DUCUING, J., 1055

DULL, J. A., Jr., 833

DUNBAR, H. S., 840

Duodenum, cancer of, surgery for, 205

radiographic pattern in, in tumors, of pancreas, 831

tumors of, primary, 205

Dyskeratosis, of cells, bronchial epithelial, after trypsin inhalation, 843

EARLE, K. M., 842

EBERT, R. E., 205

EDWARDS, T., Jr., 848, 1054

Effusion, gold for, radioactive, 415

Ehrlich ascites carcinoma or tumor. *See* Ascites carcinoma

EINSEL, I. H., 419

ELIASOPH, J., Jr., 848, 415

ELION, G. H., Jr., 848, 212

ELKINS, H. B., Jr., 848, 1059

ELLIS, F., Jr., 848, 623

ELLIS, F. H., Jr., 829

END, E., Jr., 848, 832

Endocrine organs, 631, 832, 1054. *See also* names of

Endometritis, syncytial, vs. choriocarcinoma, 1057

Endometrium. *See also* Uterus

cancer of, delay in diagnosis of, 202

carcinoma of, cytological changes indicating, earliest, 419

and hyperplasia, ovarian stromal, 418, 420

radium for, end results of, 1057

and Stein-Leventhal syndrome, 835

Enzymes. *See also* specific names of phenol-oxidizing, in melanomas, 1060

Enzymology, of cancer, 212

Endothiophilia, absolute, in diagnosis, of tumors, of lung, 211

Ependymoma, of spinal cord, 211

Epididymis, cysts of, 836

millierian epithelial vestiges in, adenoma arising in, 836

tumors of, adenomatous, histogenesis of, 836

Epinephrine, in diagnosis, of pheochromocytoma, 1054

Epithelioma, in Africans, of Cameroun, 1048

basal-cell, of sole, 839

squamous, of South African Bantu, 210

ESKLUND, V., 631

Esophagitis, and esophagogastrectomy, experimental, 829

Esophagogastrectomy, experimental, esophagitis and, 829

Esophagus, 627, 829

cancer of, and hyperplasia, ovarian stromal, 419

cervical, one-stage radical resection for cancer, of technique of, 624

surgery of, book review, 422

tumors of, benign, 829

of muscle wall, 830

smooth-muscle, 829

upper thoracic, cancer of, surgery for, thoracabdominal approach in, 627

ESSLICHORN, V. M., Jr., 848

ESTRADA, J., Jr., 848, 1055

Estrogen, in cancer, of breast, metastatic, 1050

in carcinoma, of prostate, with orchietomy, 1058

effect of, on growth, of breast, male, 1050

for metastases, pulmonary, of cancer, of breast, 623

ETHLEBORG, S., 421

Ethiology, 203

EVANS, J. A., 634

Ewing's tumor, 841

Exudate, cytology of, exfoliative, 826

Eye, 421, 840

carcinoma of, of limbus, radiotherapy for, 421

lens of, Sr⁹⁰ beta irradiation of, 845

melanoma of, malignant, pathology of, 841

tumors of, P³² in diagnosis of, 841

Eyelid, tumors of, surgery for, 839

FALK, H. L., Jr., 848, 844

FARBER, S. M., 843

FARR, L. E., 623

FARROW, J. H., Jr., 848, 625

FEINSTEIN, R. N., 424; Jr., 844

Female genital tract, 207, 418, 633, 834, 1056. *See also* names of organs of cancer of, diagnosis in, by venography, pelvic, 1056

carcinoma of, book review, 207

cytology of, exfoliative, 826

Fibrinogen conversion, impaired, in myeloma, multiple, 636

Fibroma, of esophagus, 829

of pleura, 843

Fibrosarcoma, of bronchus, 423

of esophagus, 830

transplanted, guinea-pig serum and, 213

FIGUEROA, W. C., Jr., 848, 636

FINKLE, A. L., Jr., 848, 1059

FISSMAN, W. H., Jr., 848, 212, 418

FISSPATRICK, T. E., 838

FLETCHER, G. H., 834

FLINT, J. S., Jr., 848, 424

FLOCKS, R. H., 1059

FOSTER, C. G., Jr., 848, 623

Fowl, tumors of, spontaneous, book review, 1062

FRANKS, L. M., 636

FRANKSON, C., Jr., 848, 1058

FRENCH, A. J., Jr., 848, 417

FRIEDELL, H. L., Jr., 848, 840

FRIEDMAN, M., 840

FURTH, J., 1054

Ga⁶⁰, Ga⁶⁷, Ga⁷². *See* Gallium, radioactive

GAGE, R. P., Jr., 848, 830

GAISER, H., Jr., 848, 632

GALL, E. A., Jr., 848, 633

Gallbladder, 206, 1053

carcinoma of, clinical findings in, 1053

frequency of, 206

papilloma of, management of, 207

Gallium, radioactive, (Ga⁶⁰, Ga⁶⁷), in diagnosis, of bone disease, 1061

(Ga⁷²), for cancer, of bone, unsuitability for, 414

Gallstones, in carcinoma, of gallbladder, 206, 1053

GALVIN, G. A., Jr., 848, 419

Ganglionoma, 1060

GARDNER, W. D., Jr., 848, 416

GARDNER, W. J., 840

GARRETT, R. A., 634

Gasoline-engine exhaust, as carcinogen, 844

Gastritis, atrophic, chronic, and adenoma of stomach, 205

hypertrophic, chronic, histopathology of, 830

Gastrointestinal tract, carcinoma of, metastatic, to adrenal, 631

6-mercaptopurine effect on, 212

Genital tract, male, cytology of, exfoliative, 826

tumors of, mesonephric, histogenesis of, 1056

Genitourinary tract, 208, 634, 835, 1058.

See also names of organs of

GERST, G. R., Jr., 848, 631

GERSON, R. G., 627

GILLIAM, A. G., 209

GLICK, D., Jr., 848, 1062

Glioblastoma, diagnosis of, by angiography, 421

multiforme, cells of, in cerebrospinal fluid, 1061

neutron-capture therapy for, with Bi¹⁰, 623

Glioma, benign, diagnosis of, by angiography, 421

of spinal cord, 211

Glioma retinae, radiotherapy for, 421

GLÜCKSMANN, A., Jr., 848, 207

β-Glucuronidase, in vaginal fluid, premenopausal, in cancer, invasive, of cervix, 418

GODWIN, J. T., Jr., 848, 836

Goiter, nodular, excision of, as prophylaxis, against cancer, 833

nontoxic, and carcinoma, of thyroid, 633

Gold, radioactive. *See also* Au¹⁹⁸

for effusions, 415

silver-coated, drainage of, lymphatic, after intrabronchial instillation, 204

GOLDBERGER, M. A., Jr., 848, 419

GOLDENBERG, M., 1054

GOLDGRABER, M. B., Jr., 848, 418

GOLDING, J. S. R., 1061

GOLDMAN, G., Jr., 848, 626

GOLTE, R. W., 1060

Gonadotropins, in urine, absence of, in tumors, of adrenal, functioning, in childhood, 631

GOOD, C. A., *jt. sm.*, 210
 GOODNER, J. T., *jt. sm.*, 627
 GOODWIN, W. E., *jt. sm.*, 635
 GORDON-TAYLOR, G., 203
 GORMAN, R. D., *jt. sm.*, 843
 GOTTLIEB, E., *jt. sm.*, 839
 GRAHAM, E. A., *jt. sm.*, 848
 GRAHAM, J. H., *jt. sm.*, 835
 Granuloma, mediastinal, findings in, 1050
 reticuloendothelial or reticulohistiocytic, 1060
 GRAY, H. K., *jt. sm.*, 627
 GRAY, H. T., *jt. sm.*, 626
 GRAYHACK, J. T., *jt. sm.*, 635
 GREENE, R. R., 834
 GREENING, W. P., 1050
 GREENSPAN, E. M., 1049
 GRIBOFF, S. L., 828
 GRIFFIN, A. C., *jt. sm.*, 214
 GRIMES, O. F., 843
 GRINNELL, R. S., 630
 GRISOLIA, F. T., 636
 Growth of cells, book review, 844
 GUDDE, W. D., *jt. sm.*, 1055
 GUERIN, M., 662
 GUMPERT, S. L., *jt. sm.*, 839
 GURMAN, S. I., 830; *jt. sm.*, 415
 Gynecomastia, and lesions, dermatological, role of, 626

HAAGENSEN, C. D., *jt. sm.*, 415
 HAAM, E. VON, 1056
 HAAS, L. L., *jt. sm.*, 827
 HAHN, G. A., 202
 HAHN, P. F., 204
 HALMI, N. S., 1055
 HARKINS, H. N., *jt. sm.*, 1051
 HARMER, M., *jt. sm.*, 1050
 HARNETT, W. L., 203
 HARVEY, R. A., *jt. sm.*, 827
 HAY, L. J., 205
 Heart, surgery of, book review, 422
 HELLWIG, C. A., *jt. sm.*, 1055
 Hemangioma, of esophagus, 829
 of spinal cord, 211
 Hematopoietic system, 209, 420, 836, 1059. *See also* names of structures of
 Hemorrhage, gastrointestinal, massive, from tumors, of pancreas, 631
 Heredity, gastric cancer and, 417
 in Hodgkin's disease, 838
 in polyposis of colon, 831
 HERRANNE, J. B., *jt. sm.*, 828
 HICKS, J. D., 627
 HICKS, W. K., 835
 HIGGINS, C. C., 835
 HILL, L. D., *jt. sm.*, 829
 HILSABECK, J. R., 206
 HIRST, A. E., *jt. sm.*, 631
 Histiocytosis, giant-cell, generalized, 1060
 HITCHINGS, G. H., *jt. sm.*, 212
 HODGES, P., 831
 Hodgkin's disease, 837
 allergic reactivity in, 837, 838
 amyloidosis in, after nitrogen mustard, 828
 after roentgenotherapy, 828
 familial, 838
 heredity in, 838
 nodes in, regression of, spontaneous, 1059
 pain in, alcohol-induced, diagnosis of active lymphadenomatous deposits by, 420
 of pancreas, gastrointestinal bleeding from, 631
 α -peptatin for, 1049
 phenylbutazone for, 838
 pregnancy in, 837
 of stomach, resection of, subtotal, end result of, 830
 HOFFMAN, J. G., 843
 HOFFMANN, G., *jt. sm.*, 838
 HOLDEN, W. D., *jt. sm.*, 826
 HOLM-NIELSEN, P., 625
 HOMBURGER, F., 212; *jt. sm.*, 418
 HOOD, R. T., *jt. sm.*, 210; *jt. sm.*, 829
 Hormones. *See also* specific names of carcinogenesis by, 212
 of hypophysis, anterior, age and, 1054
 melanocyte-stimulating, in melanin formation, 839
 for metastases, of cancer, of breast, 1050
 production of, by insuloma, metastasizing, 631
 steroid, in neoplasms, 212
 HORN, R. C., *jt. sm.*, 633; *jt. sm.*, 625
 HOWARD, R. P., *jt. sm.*, 1049
 HSU, T. C., 844
 HUBAY, C. A., 826

HUBBARD, T. B., *jt. sm.*, 415
 HUDSON, P. B., 624, 1059
 HUGGER, W. C., 213
 HUGGINS, C., 1050
 HULTBERG, S., 837
 HURWITT, E. S., 631
 5-Hydroxytryptamine, in carcinoid, malignant, of small intestine, 1052
 Hypercalcemia, in hormone therapy, of cancer, of breast, advanced, 204
 Hyperparathyroidism, in carcinoma, of parathyroid, 632
 Hyperplasia of endometrium, carcinoma and, 419
 epithelial, bronchiolar, in histogenesis, of carcinoma, of lung, 1062
 of fundus, in carcinoma, of stomach, surgery for, 1052
 interstitial-cell, *vs.* adenoma, of testis, 636
 Hypertension, paroxysmal, with tumor, of adrenal medulla, 832
 Hyperthyroidism, radioactive iodine for, lesions following, histology of, 632
 Hypophysectomy, for carcinoma, adrenocortical, metastatic, with Cushing's syndrome, 832
 Hypophysis. *See also* Pituitary anterior, hormones of, age and, 1054
 transplantation of, heterologous, 1054
 Hypotension, controlled, in surgery, 840

I131. *See also* Iodine, radioactive
 β -particle energy of, bone-marrow absorption of, 836
 Immunity. *See also* Allergic reactivity acquired to transplantation, homologous, mobile resistance factor in, 845
 Insuloma, metastases from, hormonal activity of, 631
 Intestine, large. *See also* Colon
 carcinoma of, venous spread from, brominol in, 628
 small, 205, 627, 830, 1052. *See also* names of sections of
 carcinoid, of, malignant, metastatic, to liver, and other lesions with, constituting syndrome, 1052
 lymphoma of, malignant, 830
 sprue syndrome with, 627
 Involutive. *See* Regression
 Iodine, radioactive. *See also* I131
 for carcinoma, of thyroid, 833
 uptake of, in carcinoma, of thyroid, 632
 Isotopes, radioactive, 204, 414. *See also* specific names of; symbols of
 IVINS, J. C., 841

JACKSON, C. C., *jt. sm.*, 629
 JACOBSON, L. O., *jt. sm.*, 209
 JACOBSSON, P., 833
 JAILER, J. W., *jt. sm.*, 832
 JAMES, T. N., 636
 JENNINGS, R. C., 843
 JEWETT, H. J., 634
 JOFFE, A., *jt. sm.*, 838
 JOHNSTON, A. W., 1059
 JOHNSTON, J. B., 829
 JOHNSTON, J. H., *jt. sm.*, 1050
 JONES, E. G., *jt. sm.*, 414
 JONES, F. A., *jt. sm.*, 206
 JONES, H. W., *jt. sm.*, 419
 JONES, R. C., 1061
 JUDY, E. S., *jt. sm.*, 628

KAHLER, J. E., *jt. sm.*, 203
 KANE, I. J., 423
 Kaposi's disease, in Africans, of Cameroun, 1048
 Kaposi's sarcoma, with lymphoma, giant follicular, Brill-Symmers, 1061 malignant, 1061
 KASDON, S. C., 418
 KAUFMAN, J. J., 635
 KEECH, M. K., *jt. sm.*, 206
 KERN, P., *jt. sm.*, 210
 KENNEDY, B. J., 204
 KERR, H. D., *jt. sm.*, 1059
 KERTÉZ, D., 1060
 11-Keto- α -etiocholanolone, in carcinoma, of prostate, 1058
 17-Ketosteroids, in carcinoma, of prostate, 1058
 after surgery, 635
 excretion of, after testosterone esters, 1049
 in tumors, functioning, of adrenal, in childhood, 631

KEILMAN, M., *jt. sm.*, 415
 KIDD, J. G., 213
 Kidney, 634, 835
 adenoma of, tubular, benign, malignant change in, 835
 in carcinoma, of cervix, 208
 carcinoma of, in male veterans, 843
 nephrotomography of, technique of, 634
 KIRSNER, J. B., *jt. sm.*, 831
 KNAUS, W. E., 208
 KNOWLTON, A. I., 832
 KOLETISKY, S., *jt. sm.*, 419
 KOLLER, J., *jt. sm.*, 632
 KOTIN, P., 203, 844
 KOTTMAYER, H. L., 207
 KREMER, A. J., 624
 KROEMER, J. S., 840
 KRUMHOLZ, L. A., 842
 KUNKEL, W. M., *jt. sm.*, 1050
 KURZWEG, F. T., *jt. sm.*, 1053

Lactation, luteotropin-induced, in breast, cancerous, 1050
 LAIRD, A. K., 845
 LAMPE, I., 840
 LAMY, [R.], *jt. sm.*, 1051
 LANGLEY, F. A., 835
 Larynx, carcinoma of, in male veterans, 843
 one-stage radical resection for cancer, technique of, 624
 LASSER, E. C., *jt. sm.*, 1062
 LAUGHLIN, J. S., *jt. sm.*, 827
 LAYMON, C. W., *jt. sm.*, 1060
 LEAMING, R., *jt. sm.*, 210
 LEE, C. M., *jt. sm.*, 631
 Leiomyoma, of colon, 628
 of duodenum, 205
 of esophagus, 829
 management of, 829
 of stomach, 829
 Leiomyosarcoma, of colon, 628
 malignancy of, 629
 of esophagus, 829, 830
 of stomach, management of, 627
 LENNOX, B., *jt. sm.*, 1060
 LERNER, A. B., *jt. sm.*, 838
 LEUCHTENBERGER, C., 831, 845
 LEUCHTENBERGER, R., *jt. sm.*, 845
 Leukemia. 836
 acute, preleukemic phase of, signs of, 209
 thio-TEPA for, 623
 in Africans of Cameroun, 1048
 allergic reactivity in, 838
 bone marrow in, blood flow in, I^131 clearance showing, 420
 pressure of, 837
 chronic, thio-TEPA for, 623
 granulocytic, chronic, panmyelosis and, 420
 incidence of, age, 837
 factors in, 209
 lymphocytes of, deoxyribonucleic acid content of, 420
 lymphocytic, duration of, 837
 statistics on, 837
 lymphoid, lymphokentric acid in serum in, 424
 in male veterans, 843
 monocytic, lymphokentric and myelokentric acids in serum in, 424
 myelogenous, chronic, and megakaryocytosis, extramedullary, 1060
 myeloid, myelokentric acid in serum in, 424
 α -peptatin for, 1049
 sulfonamides for, liver necrosis after, 837

LEZIUS, A., 210
 LIBERMAN, Z., 838
 LIEBOW, A. A., *jt. sm.*, 421
 LINDSAY, S., *jt. sm.*, 632
 LINDSKOG, G. E., 421
 LING, A., *jt. sm.*, 840
 Lipoma, of duodenum, 205
 mediastinal, thymus and, 1050
 Lipothymoma, and lipoma, mediastinal, 1050
 Liver, 1053
 cancer of, cirrhosis and, in Africans, of Cameroun, 1048
 metastatic, bromsulphalein test in, 1053
 phosphatase in, alkaline, 1053
 colloidal radioactive chroinic phosphate in, after administration, intracavitory, 843
 6-mercaptopurine effect on, 212
 metastases to, from carcinoid, malignant, of small intestine, and other

lesions with, constituting syndrome, 1052
from tumor, functioning, of parathyroid, 632
necrosis of, acute, in leukemia, after sulfonamides, 837
tumors of, after 3'-methyl-4-dimethylaminoazobenzene and adrenocorticotropin, 214

LLOYD, F. A., 635
Lobectomy, in cancer, of lung, 422
LOCKLEY, H. B., *jt. su.*, 623
LOGE, K. V., 837
LOGAN, W. P. D., 625
LOMBARD, O. M., *jt. su.*, 419
LOW-BEER, B. V. A., *jt. su.*, 1060
LOWMORE, B. S., *jt. su.*, 1049
LUCIA, E. L., *jt. su.*, 837
Lung, 210, 422, 842, 1061
cancer of, in cancer-detection clinic, 202
carcinogenicity of air and, 844
development of, 423
diagnosis of, eosinophilia in, absolute, 211
environment in, 212
and hyperplasia, ovarian stromal, 419
mortality from, in nonsmokers, 423
in nonsmokers, mortality in, 423
origin of, 423
"scar," 423
carcinoma of. *See also* Carcinoma, bronchogenic
alveolar-cell, radiographic sign of, 1062
death from, causes of, 842
histogenesis of, and hyperplasia, epithelial, bronchiolar, 1062
intraepithelial, 423
in male veterans, statistics on, 842
management of, end results of, 422
metastatic, to adrenal, 631
primary, metaplasia and, 211
lesions of, calcified, malignancy of, 1062
circumscribed, solitary, thoracotomy for, diagnostic, 1061
solitary, circumscribed, malignancy of, 210
lymphosarcoma of, primary, 843
metastases to, from cancer, of breast, estrogen for, 623
surgery of, book review, 210, 422

LUOMANEN, R., *jt. su.*, 627
Luteotropin, lactation induced by, in breast, cancerous, 1050
male, 1050
Lymphatics, of diaphragm, role of, in ascites, in peritoneal carcinomatosis, 625
drainage routes of, from cervix, 207
radioactive gold showing, after intrabronchial instillation, 204
Lymph nodes, histology of, and survival, in carcinoma, of stomach, 1051
Lymphoblastoma, allergic reactivity in, 837
bone marrow in, blood flow in, 131 clearance showing, 420
Lymphocytes, deoxyribonucleic acid content of, 420
Lymphoma, giant follicular, Brill-Symmers, with Kaposi's sarcoma, 1061
a-peltatin for, 1049
incidence, factors in, 209
of intestine, small, sprue syndrome with, 627
in male veterans, 843
malignant, of gastrointestinal tract, 830
with Kaposi's sarcoma, 1061
renal calculi in, factors in, 209
transplanted, in mice, regression of, after normal animal serum, 213
uremia in, factors in, 209

Lymphosarcoma, in Africans, of Cameroun, 1048
allergic reactivity in, 837
duration of illness in, 1060
findings in, statistical, 1060
a-peltatin for, 1049
primary, of lung, 843
transplanted, in rat, guinea-pig serum effect on, 213

McCLINTOCK, J. C., 834
McCORKLE, R. G., *jt. su.*, 842
McDONALD, J. J., 415
McDONALD, J. R., *jt. su.*, 210, 628, 829, 843, 1050
McELWAIN, J. W., 831
MACINTYRE, R. S., *jt. su.*, 840
MACKENZIE, D. A., 628
McMANUS, R. G., 205

McNEER, G., *jt. su.*, 206
MACOMBER, W. B., 839
MADER, P., *jt. su.*, 844
MAIMON, S. N., 417
MAIN, J. M., *jt. su.*, 845
MAIRE, [R.], 1051
MAJARAKIS, J. D., 633
MARCHANT, J., 213
MARGOLIN, H. N., *jt. su.*, 415
MASON, E. D., *jt. su.*, 841
MASOURIDES, S. P., *jt. su.*, 420
MASOPUST, L. C., 416
Mastectomy, indications for, in metastases to nodes, internal mammary and supraclavicular, 415
prophylactic, of remaining breast, 415
MAXWELL, J. H., *jt. su.*, 417
MAYER, J., *jt. su.*, 415
Mediastinum, 1050
granuloma in, findings in, 1050
surgery of, book review, 422
tumors in, 1050
Medulloblastoma, of cerebellum, radiotherapy for, 840
Megakaryocytopenia, in bone marrow, in myeloma, multiple, 636
Megakaryocytosis, extramedullary, in leukemia, myelogenous, chronic, 1060
MERSITZ, E., *jt. su.*, 836
Melanin, biochemistry of, 839
Melanocytes, number of, in epidermis, human, 1061
Melanoma, and enzymes, phenol-oxidizing, 1060
malignant, of eye, pathology of, 841
metastases of, melanotic, repigmentation in, 1060
in South African Bantu, 210
surgery for, 839
survival in, 839
metastatic, chromosomes of, 844
Melanosarcoma, in Africans, of Cameroun, 1048
MELNDY, O. A., *jt. su.*, 205
MENDELSON, M. L., *jt. su.*, 623
Meningitis, diagnosis of, by angiography, 421
intracranial, surgery for, hypotension in, controlled, 840
Menopause, effect of, on survival, in carcinoma, of breast, 416
6-Mercaptopurine, effect of, on normal animals, 212
on sarcoma, 180, 212
MERIOU, J. M. I., *jt. su.*, 1051
MERTZ, H. O., *jt. su.*, 634
Mesothelioma, of genital tract, 1056
solitary, of pleura, 422
Metabolism, after adrenalectomy, bilateral, for carcinoma, of prostate, 635
in cancer, 212
a-ketosteroid excretion pattern in normal males, 212
in melanin formation, 839
in myeloma, multiple, on ACTH, 841
steroid, a-ketosteroid excretion pattern in normal males, 212
after testosterone esters, 1049
Metaplasia, of cells, bronchial epithelial, after trypsin inhalation, 843
of epididymis, 836
of epithelium, bronchial, incidence of, 211
gastric, 627
precancerous, of cervix, and carcinoma, preinvasive, 633
Metastasis. *See also* Recurrence
of adenocarcinoma, of breast, thi-TEPA for, 623
papillary, of thyroid, to neck, lateral, 1055
to adrenal, primary sites of, 631
amelanotic, in melanoma, malignant, repigmentation in, 1060
blood-bone, of carcinoma, of prostate, to bone, 636
distribution of, mechanisms of, 203
origin of, mechanisms of, 203
to bone, in carcinoma, of breast, hypercalcemia, 828
in neuroblastoma, 210
of cancer, of breast, 1050
to cancer, 1048
of thyroid, 632
of carcinoid, malignant, of small intestine, 1052
of carcinoma, adrenocortical, with Cushing's syndrome, 832
of breast, 416
to adrenal, 631
to lymph nodes, internal mammary and supraclavicular, 415
sites of, survival and, 828
of colon, venous invasion by, 628
of lung, after surgery, time of onset of, 422
of parathyroid, 632
squamous-cell, of anus, 630
of cervix, 207
of thyroid, management of, 833
cervical, from carcinoma, squamous-cell, of oral cavity, 625
of thyroid, surgery for, 833
from chemodectoma, of carotid body, 625
of fibrosarcoma, of bronchus, 424
implantation, in recurrence of, cancer, of colon, 831
of insuloma, hormonal activity of, 631
intracerebral, of tumors, angiography of, 421
of leiomyosarcoma, of colon, 629
of stomach, 627
to liver, in carcinoid, malignant, of small intestine, 1052
lymph-node, ligation against, inferior mesenteric artery, in cancer, of rectum, 831
of melanoma, malignant, 839
pulmonary, of cancer, of breast, estrogen for, 623
sites of, in carcinoma, of colon, distal, 629
of rectum, 629
spinal-cord, from tumors, primary, of brain, myelography in, 421
from tumors, of bladder, 1058
Wilms', in children, 634
20-Methylcholanthrene, as carcinogen, 213
METTLER, S. R., *jt. su.*, 837, 1060
MEYER, H. W., 839
Microscopy, electron, of papilloma, cutaneous, 838
phase-contrast, in cytology of fibroblasts, cultured, effect of various procedures on, 1062
Microspectrophotometry, of nucleic acid, deoxyribonucleic, of cells, neoplastic, 845
MILLAR, O. B., *jt. su.*, 1057
MILLER, E. M., *jt. su.*, 1053
MILLER, E. R., *jt. su.*, 632
MILLER, F. R., *jt. su.*, 424
MILLER, P., *jt. su.*, 420
MISHKIN, S., *jt. su.*, 1050
MITCHELL, J. S., 623
MOELLER, H. C., *jt. su.*, 831
MOHLER, D. I., *jt. su.*, 418
Mole, hydatidiform, benign, vs. choriocarcinoma, 1057
MONROE, R., *jt. su.*, 203
MONTEITH, J. C., *jt. su.*, 634
MONTO, R. W., *jt. su.*, 636
MOORE, G. E., *jt. su.*, 632
MOORE, H. G., Jr., 629, 1051
Moss, J., *jt. su.*, 828
MOSTOVSKY, F. K., *jt. su.*, 1058
Mouse, tumors of, spontaneous, book review, 1062
Mouth, floor of, carcinoma of, management of, 828
MOYERS, E. D., Jr., *jt. su.*, 625
Mucocoele, malignant, of appendix, carcinoma and, 206
Millerian epithelial vestiges, in epididymis, adenoma in, 836
MUNOZ, C. M., *jt. su.*, 845
MURLEY, R. S., *jt. su.*, 416
MURRAY, J. F., *jt. su.*, 210
MURRAY, R. C., 211
Musculocutaneous system, 210, 838, 1060
Muskrat, sarcoma in, osteogenic, from radioactive strontium, 842
Mycosis fungoides, allergic reactivity in, 837
Myelography, in metastases, spinal cord, from tumors, of brain, primary, 421
Myeloma, cerebral, cells of, in cerebrospinal fluid, 1061
multiple, ACTH for, metabolism in, 841
allergic reactivity in, 838
bone marrow in, blood flow in, 131 clearance showing, 420
fibrin formation in, impaired, Ca role in, 636
thrombocytopenia in, and bleeding, abnormal, 636
Myelosis, chronic, and megakaryocytosis, extramedullary, 1060

NARDI, G. L., *jt. su.*, 632
Nasopharynx, angiofibroma of, surgery for, technique of, 624

NATHANSON, I. T., *jt. su.*, 204

Neck, 625
lateral, cancer of, one-stage radical resection for, technique of, 624

NEEL, J. V., 831

Negro, Bantu, cancer in, 210
of Cameroun, cancer in, 1048

NEIL, R. H., *jt. su.*, 414

NERENBERG, S. T., 832

Nervous system, 210, 421, 840, 1061. *See also* names of organs of
central, changes in, after 23-Mev irradiation, 827
tumors of, radiotherapy of, with 23-Mev, 827

Neuroblastoma, roentgenography in, 210
of spinal cord, 211

Neurofibroma, of duodenum, 205
of spinal cord, 211

Neurofibromatosis, *vs.* dysplasia, fibrous, of bone, 842

Neutron-capture therapy, with boron, in glioblastoma multiforme, 623

Nevi, vascular, involution of, spontaneous, 626

Nitrogen mustard, amyloidosis following, 827

NOLAN, J. F., 414

Nor-epinephrine, in diagnosis, of pheochromocytoma, 1054

NOVAK, E., 1057

NOVAK, E. R., 418; *jt. su.*, 1058

Nucleic acid, desoxyribose, of cells, microspectrophotometric study of, 845
estimation of, microspectrophotometric, 420
in inclusion bodies, cytoplasmic, in renal-polyp cells, 831
of lymphocytes, 420

5-Nucleotidase, of testis, 836

Occupational cancer, 203

Oil, as carcinogen, 203
croton, as carcinogen, 213, 848
shale, as carcinogen, 213

OLDFIELD, M. C., 1053

Ollier's disease, *vs.* dysplasia, fibrous, of bone, 842

O'NEAL, M. A., *jt. su.*, 214

OPFER, S. R., *jt. su.*, 1050

OPPERMANN, K. C., *jt. su.*, 837, 1060

Oral cavity, 828
carcinoma of, squamous-cell, metastases of, to cervical lymph nodes, 625

Orchiectomy, for carcinoma, of breast, male, 416
of prostate, 1058

ORE, J. W., *jt. su.*, 213

OSBORNE, M. P., *jt. su.*, 205

Ossaceous system, 636, 841, 1061

Osteitis fibrosa generalisata, 632

Osteoma, osteoid, natural history of, 1061

Ovarian Tumor Registry, 1058

Ovary, 208, 419, 634, 835, 1057
arrhenoblastoma of, classification of, 835
histogenesis of, 835
cancer of, delay in diagnosis of, 202
carcinoma of, squamous-cell, in teratoma, benign cystic, 419
hyperplasia of, cortical-stromal, and cancer, of breast, 626
castration and, 626
stromal, cancer associated with, incidence of, 419
sites of, 419
and carcinoma, of endometrium, 418, 420

tumors of, Brenner, histogenesis of, 634
granulosa-cell, 419
Brenner tumors and, 634
malignant, in child, 419
and theca-cell, functional, in child, Meig's syndrome with, 208

Leydig-cell, 835
papillary serous, pathology of, 1058

Sertoli-cell, 835
theca-cell, Brenner tumors and, 634

PS³², in diagnosis, of tumors, intracocular, 841

PACK, G. T., 1061

Paget's disease, of breast, prognosis in, 1050

Pain, alcohol-induced, in Hodgkin's disease, diagnosis of active lymphadenomatous deposits by, 420
after compound I, 623

PALMER, E. D., 830

PALMER, J. P., 834

PALMER, W. L., *jt. su.*, 831

Pancreas, 631, 831
carcinoma of, gastrointestinal bleeding from, 631
in male veterans, 843
metastatic, to adrenal, 631

Hodgkin's disease of, gastrointestinal bleeding from, 631
insuloma of, metastasizing, hormonal activity of, 631
tumors of, islet-cell, active, cytology of, 832
radiography of, 831

Panmyelosis, and leukemia, granulocytic, chronic, 420

PAPANICOLAOU, G. N., 826

Papilloma, cutaneous, cytology of, virus-like particles in, 838
of gallbladder, with *in situ* carcinoma, 206
of skin, in mice, after croton oil, 213
squamous, of cervix, 834

Paraganglioma, nonchromaffin, metastatic, of carotid body, 625

Paranasal sinuses, 842

Parathyroid, 632, 1054
adenoma of, roentgenography in, 1054
carcinoma of, with hyperparathyroidism, 632
tumor of, functioning, metastatic, to liver, 632

Parathyrotopin, age and, 1054

PARKHILL, E. M., *jt. su.*, 842

PARKHURST, G. F., *jt. su.*, 205

Parotid, carcinoma of, pseudoadenomatous, basal-cell, histology of, 417
surgery for, 417

PASCHER, F., 839

Pathogenesis, 203

PEARSON, O. H., 625

PECKHAM, B. M., *jt. su.*, 834

α-Peltatin, for cancer, advanced, 1049

Pelvis, kidney, tumors of, management of, 835

PENDERGRASS, E. P., *jt. su.*, 831

Peritoneal cavity, effusions of, radioactive gold for, 415

Peritoneum, carcinomatosis of, with ascites, pathogenesis of, 625

Pernicious anemia, and carcinoma, of stomach, clinical findings in, 1051

PERSKY, L., *jt. su.*, 209

PETRAKIS, N. L., 420, 837

PHARE, S. L., *jt. su.*, 843

Pharynx, cancer of, resection for, one-stage radical, technique of, 624

Phenylbutazone, in Hodgkin's disease, 838

Pheochromocytoma, diagnosis of, chemical screening in, 1034
surgery for, 832

Philadelphia Committee for the Study of Pelvic Cancer, 202

PHILIPS, F. S., *jt. su.*, 211

Phlebogram, infrared, in diagnosis, of tumors, of breast, 416

Phosphatase, acid, in carcinoma, of prostate, after adrenalectomy, bilateral, 635

alkaline, in cancer, metastatic, of liver, 1053
in carcinoma, of breast, with metastases, to bone, 828
of prostate, after adrenalectomy, 635
of testis, 836

Phosphate, colloidal radioactive chromic, distribution of, after administration of, intracavitary, 843

Pigmentation, circumoral, in polyposis, intestinal, 830
cutaneous, with dysplasia, fibrous, of bone, 842
melanin, biochemistry of, 839

Piperoxane, in diagnosis, of pheochromocytoma, 832

Pituitary, 1054
adenoma of, 205
multicentric, after radiothyroidectomy, 1055
histopathology of, cortisone-induced changes, 622
and ovarian stromal-cell hyperplasia, 418
tumors of, thyrotropin-secreting, morphological changes from, 1054

PLANTIN, L.-O., *jt. su.*, 1058

Plasma, proteins of, abnormality of, in myeloma, multiple, 636

PLENTZ, A. A., *jt. su.*, 1056

Pleura, 422, 843
fibroma of, 843

Pleura, *cont'd*
mesothelioma of, solitary, histology of, 422
management of, 422

Pleural cavity, effusions of, radioactive gold for, 415

Pneumonectomy, in cancer, of lung, end results of, 422
in fibrosarcoma, of bronchus, 424

POLLARD, H. M., *jt. su.*, 831

Polyp, adenomatous, of appendix, 206
of colon, malignant change in, 628, 629
treatment of, 629

of esophagus, 829

of rectum, cells of, inclusion bodies in, of desoxyribonucleic acid, 831
malignant change in, 629
treatment of, 629

of stomach, and cancer, multiple, 205

Polyposis, of colon, heredity in, 831
treatment of, 629
familial, of colon, and sebocystomatosis, 1053
with pigmentation, circumoral, 830

POMER, F. A., 835

POOL, J. L., *jt. su.*, 421, 832

POSKANZER, C. L., 627

Pregnancy, cancer and, of breast, 625
remaining, after cancer of breast, 415
of uterus, 625

and carcinoma, of breast, survival, in, 626

in Hodgkin's disease, 837

PREHN, R. T., 845

PRIESTLEY, J. T., *jt. su.*, 418

PRINCE, T. C., *jt. su.*, 843

Prostate, 208, 635, 1058
adenocarcinoma of, metastases of, to cancer, clear-cell, of kidney, 1048
cancer of, adrenalectomy in, not indicated, 625
in cancer-detection clinic, 202

carcinoma of, adrenalectomy for, metabolism in, 635
results of, 827

androgen excretion with, 1058

Au¹⁹⁸ for, 1059

diagnosis of, 208

early, biopsy for, transurethral, value of, 1059
in male veterans, 843

metastases of, to bone, blood-borne, 636
orchectomy for, 1058
with adrenalectomy, 1058
hormone treatment with, 1058

prostatectomy for, total, results of, 208

Pseudomyxoma peritonei, 206
and hypertension, "essential," 832

PUGH, D. G., 842

Pylogram, abnormal, in carcinoma, of cervix, significance of, 208

Pyelonephritis, chronic, following uretero-sigmoidostomy, for carcinoma, of bladder, 635

Pylorus, antrum of, carcinoma of, squamous-cell, 627

Pyrene, of air, as carcinogen, 844

RABSON, S. M., 1048

Radiation, 623
of brain, primate, and glial-cell changes, 1062

of lens, of eye, effect of, 845

Radiation resistance, in carcinoma, of cervix, pylogram and, 208

Radiation sensitivity, in carcinoma, of cervix, pylogram and, 208

Radioactive isotopes, 204, 414. *See also* names of; symbols of
in localization of, tumors, of brain, 840

Radiography, with brominol, for venous invasion, in carcinoma, of colon, 628
in carcinoma, alveolar-cell, of lung, diagnostic sign in, 1062
of stomach, *vs.* hypertrophied folds, localized, 830

in diagnosis, of adenoma, of parathyroid, 1054

of dysplasia, fibrous, of bone, 842

nephrotomography in, technique of, 423

sectional, of chest, book review, 423

in tumors, of amolla of Vater, 831
of pancreas, 831

Radiotherapy. *See* I¹³¹

Radiotherapy, with Au¹⁹⁸, in carcinoma, of prostate, 1059

of bone marrow, by I¹³¹ β-particle energy, 836

Radiotherapy, cont'd.
 in cancer of thyroid, 632
 in carcinoma, of corpus uteri, 207
 of limbus, 421
 of mouth, floor of, 828
 squamous-cell, of anus, results of, 630, 631
 of thyroid, 632, 833
 compound I as radiosensitizer in, 623
 for medulloblastoma, of cerebellum, 840
 with 23-Mev, in tumors, of central nervous system, 827
 preoperative, in tumor, Wilms's, 634
Radiothyroidectomy, and tumors, of pituitary, 1054, 1055
Radium, for carcinoma, of endometrium, and results of, 1057
 of limbus, 421
 of mouth, floor of, 828
 dosimetry of, in carcinoma, of cervix, 834
 for retinoblastoma, 421
 for sarcoma, reticulum-cell, 842
Radiumbenmet, gynecological section, report on, book review, 207
RAEBURN, C., *jt. au.*, 1062
RANDALL, H. T., *jt. au.*, 625
RANSOM, C. L., *jt. au.*, 635
RAPPORTE, M. M., *jt. au.*, 1054
Rat, tumor of, spontaneous, book review, 1062
RAY, B. S., *jt. au.*, 840
REBUCK, J. W., *jt. au.*, 636
von Recklinghausen's disease, 632
Rectum, 629, 830, 1052. See also Colon
 cancer of, metastases from, lymph-node, ligation against, of inferior mesenteric artery, 831
 carcinoma of, blood-vessel invasion by, 629
 extension of, direct, prognosis and, 1052
 in male veterans, 843
 metastases from, sites of, 629
 multiple, 1053
 polyps and, 831
 surgery for, advances in, 1052
 radical, 630
 mid-, carcinoma of, surgery for, sphincter-preserving, 1053
 polyps, of carcinoma and, 831
 Recurrence. *See also Metastasis*
 of adenocarcinoma, of breast, thio-TEPA for, 623
 in carcinoma, of breast, 417
 of colon, after surgery, 1052
 of lung, after surgery, time of onset of, 422
 of parathyroid, 632
 of rectum, after surgery, 1052
 of leiomyosarcoma, of colon, 629
 in neuroblastoma, 210
 of polyps, of colon, 628, 831
 of rectum, 628, 831
REDDY, U. J., *jt. au.*, 1051
Regtine, in diagnosis, of pheochromocytoma, 832, 833
Regression, spontaneous, of carcinoma, bronchogenic, untreated, 842
 of carcinoma *in situ*, 207, 826, 1057
 of nodes, in Hodgkin's disease, 1059
 of tumors, vascular, cutaneous, 626
REIFENSTEIN, E. C., Jr., 1049
REIMINK, W. H., 418
Research, 211, 424, 843, 1062
Respiratory tract, 210, 421, 842, 1061.
See also names of organs of
 cytology, of exfoliative, 826
Reticulohistiocytoma, 1060
Reticulohistiocytosis, multicentric, of skin and synovia, histology of, 1060
Reticulosarcoma, cerebral, cells of, in cerebrospinal fluid, 1061
Retinoblastoma, radiotherapy for, 421
Rhabdomyosarcoma, of esophagus, 830
 management of, 838
RICHARDSON, H. L., *jt. au.*, 214
RIDER, J. A., 831
RIGBY-JONES, P., *jt. au.*, 1050
RIGLER, L. G., *jt. au.*, 1062
RITCHIE, A. C., *jt. au.*, 214
ROBBINS, L. L., *jt. au.*, 1054
ROBERTS, B., 1053
ROBERTSON, C. H., 214
ROBERTSON, J. S., 836; *jt. au.*, 623
Roentgenography. *See Radiography*
Roentgenotherapy, amyloidosis following, 827
 and carcinoma, of breast, survival after, 416
 of mouth, floor of, 828
 for metastases, of cancer, of breast,

adrenalectomy with, 1050
 2 million volt, for chordoma, rotation technique in, 840
 in retinoblastoma, 421
 for sarcoma, reticulum-cell, 842
ROMANSKI, E., 625
RONCHETTI, F., 626
ROSE, W., *jt. au.*, 208
ROSENBAUM, D., *jt. au.*, 1048
ROSENBERG, A., Jr., 837
ROTTING, A., 838
ROYSTER, H. P., 625
RUBIN, C. E., 418
RUBIN, M., 1050
RUSSEL, S., *jt. au.*, 636
RUST, J. H., *jt. au.*, 842

Salivary glands, 417. *See also Parotid*
SAUER, W. G., *jt. au.*, 830
SCHELL, R. F., 1051
SCHERRER, W. F., *jt. au.*, 1062
SCHIER, W. W., 838
SCHMÄHL, D., 846
SCHMIDT, R. M., *jt. au.*, 627
SCHOENBACH, E. B., *jt. au.*, 1049
SCHROEDER, H. A., 832
SCHWARTZ, H. G., *jt. au.*, 840
SCOTT, W. W., *jt. au.*, 635
SEAH, C. S., *jt. au.*, 1057
SEALE, E. R., 421
SEAMAN, W. B., 840
 Seminoma, of testis, histochemistry of, 836
SELIN, I., *jt. au.*, 1054
 Serum, calcium of, in carcinoma, of breast, with metastases, to bone, 828
 proteins of, in myeloma, multiple, amino acid in, analysis of, 636
SHALEK, R. J., *jt. au.*, 834
SHAPIRO, M. P., 210
SHAW, K. M., *jt. au.*, 843
SHAY, H., 622, 1053
SHEAR, M. J., *jt. au.*, 1049
SHERMAN, E. S., 210
SHIER, C. B., 834
SHIMKIN, M. B., 837, 1060
SHUBIK, P., 214
Sigmoid. *See also Colon, Rectum*
 adenocarcinoma of, surgery for, repeated, 629
 carcinoma of, emphysematous cellulitis of leg with, 628
 in male veterans, 843
 multiple, 1053
 polyps and, 831
 surgery for, radical, 630
 polyps of, carcinoma and, 831
SIMON, N., 415
SIMS, C. F., *jt. au.*, 839
Sims, maxillary, cystadenoma of, papillary, 842
SIPLEY, H., *jt. au.*, 1053
Skin, 210, 838, 1060
 cancer of, in Bantu, 210
 albino, 210
 management of, 210
 in cancer-detection clinic, 202
 carcinoma of, in mice, after croton oil, 213, 848
 cysts of, multiple, in polyposis, familial, of colon, 1053
 of foot, epithelioma of, basal-cell, 839
 lesions of, gynecomastia and, 626
 melanocytes of, number of, 1061
 reticulohistiocytosis of, multicentric, 1060
 tumors of, after croton oil, with 9,10-dimethyl-1,2-benzanthracene, 214
 in mice, after 20-methylcholanthrene, 213
 vascular, involution of, spontaneous, 626

SLAUGHTER, D. P., *jt. au.*, 633
SLIEKHENGER, M. H., 627
SLOAN, W. P., *jt. au.*, 830
SMELIN, A., *jt. au.*, 828

SMETANA, H. F., 1048
SMITH, C., *jt. au.*, 418
SMITH, G. V., 416
SMITH, M., 830
SMITH, N., *jt. au.*, 622
SMITH, O. W., *jt. au.*, 416
SOBEL, E. H., 631
SOFFER, A., 833
SOHVAL, A. R., 1059
 Sole, epithelioma of, basal-cell, 839
SOMERVILLE, P., 204
SOMMERS, S. C., 419, 626; *jt. au.*, 205, 1050

SØRENSEN, B., *jt. au.*, 828
SOUTTER, L., *jt. au.*, 830
SPERER, F. D., *jt. au.*, 1050
SPERKER, H., 1062; *jt. au.*, 423
SPERLING, L., 830
 Spermatid, desoxyribonucleic acid content of, 420
 Spinal cord, tumors of, in children, 211
 clinical features of, 211
 Splenomegaly, obstructive, in tumors, of pancreas, 631
 Spongiosarcoma, of spinal cord, 211
SPRIGGS, A. I., 1061
 Sprue syndrome, in lymphoma, of small intestine, 627
 Sputum, cytology of, exfoliative, in carcinoma, of bronchus, 843
S⁹⁰, beta irradiation from, to lens, of eye, 845
STALLARD, H. B., 421
 Statistics, age, in cancer, of breast, male, 205
 in carcinoma, of lung, in male veterans, 842
 in leukemia, lymphocytic, 837
 in lymphosarcoma, 1060
 of cancer, in hyperplasia, ovarian cortical stromal, 419
 carcinoma, inflammatory, of breast, male, 416
 geographic, of cancer, in Cameroun, 1048
 of stomach, in Egypt, 1051
 in India, 1051
 in North Africa, 1051
 in Paris, 1051
 incidence, age, in leukemia, 837
 in cancer, of breast, male, 205
 and colitis, ulcerative, chronic, 831
 of lung, in nonsmokers, 423
 of carcinoma, of gallbladder, 206
 squamous-cell, of ovary, in benign cystic teratoma, 419
 in lesions, circumscribed, solitary, of lung, 1062
 in leukemia, 209
 of lymphomas, 209
 of papilloma, of gallbladder, 206
 Strang Cancer Prevention Clinic, Memorial Center, 202
 race, of cancer, in Africans, and Bamilekés, 1048
 in leukemia, 209
 in lymphomas, 209
 sex, in leukemia, 209
 lymphocytic, 837
 in lymphomas, 209
 in lymphosarcoma, 1060
 survival, in adenoma, invasive, of thyroid, 1055
 in cancer, of bladder, 635
 of stomach, factors in, 418
 of thyroid, 632
 of vagina, 834
 in carcinoma, of breast, 416
 with pregnancy, 626
 of colon and rectum, 1052
 of endometrium, 1057
 of lung, 422
 of mouth, floor of, 828
 of prostate, 209
 of rectum, mid-, after surgery, sphincter-preserving, 1053
 squamous-cell, of anus, 630, 631
 of stomach, lymph-node histology and, 1051
 of thyroid, 633, 833
 in choriocarcinoma, of uterus, 1057
 delay in treatment and, 203
 in leiomyosarcoma, of stomach, 627
 in leukemia, lymphocytic, 837
 in lymphosarcoma, 1060
 in melanoma, malignant, 839
 and metastases, in carcinoma, of breast, 828
 in tumors, of bladder, 1058
STEPHENS, H. B., *jt. au.*, 843
STERNBERG, S. S., *jt. au.*, 211

STICKLEY, E. E., *jt. su.*, 623

STIER, P. L., *jt. su.*, 1048

Stilbestrol, for carcinoma, of prostate, 1058

STILES, R. E., *jt. su.*, 835

STOCK, C. C., 848; *jt. su.*, 212

STODDARD, L. D., *jt. su.*, 420

STOLL, B. A., 621

Stomach, 205, 417, 627, 830, 1050

adenomas of, cancer and, 205

biopsy of, gastric tube for, improved, 418

cancer of, in Egypt, 1051

 familial, 417

 and hyperplasia, ovarian stromal, 419

 in India, 1051

lymph nodes and, regional, histology of, survival and, 1051

in North Africa, rarity of, 1051

in Paris, 1051

carcinoma of, vs. hypertrophied folds, localized, 830

lymph-node involvement in, survival and, 418

in male veterans, 843

multicentric, 1052

pernicious anemia and, clinical findings in, 1051

pathology of, 1051

site of, survival and, 418

squamous-cell, 627

surgery for, prognosis after, factors in, 418

leiomyoma of, 829

leiomyosarcoma of, clinical findings in, 627

 management of, 627

lymphoma of, malignant, 830

polyps of, cancer and, 205

surgery of, Billroth I in, book review, 1051

STORAASLI, J. P., *jt. su.*, 840

STOREY, C. F., 423

STOUT, A. P., *jt. su.*, 415

STRANAHAN, A., *jt. su.*, 834

Strang Cancer Prevention Clinic, Memorial Center, 12-year experience, 202

Strontium, radioactive. *See also* Sr⁸⁹

sarcoma from, osteogenic, in muskrat, 842

STRUTHERS, A. M., 842

SUGIURA, K., 214

Sulfonamides, in leukemia, liver necrosis after, 837

SUM, D. C. H., *jt. su.*, 622

SUNDARASIVARAO, D., 836

Surgery, 624

 abdominal, in elderly, management of, 1049

 amputation in, hindquarter, postoperative management in, 203

 technique of, 203

 for cancer of duodenum, 205

 of thyroid, 632, 633

 in carcinoma, of bladder, cystectomy for, early, 835

 of breast, survival after, 416

 of colon, advances in, 1052

 of lung, end results of, 422

 of mouth, floor of, 828

 of prostate, 1058

 of rectum, advances in, 1052

 squamous-cell, of anus, 630, 631

 of thyroid, 833

 en bloc excision in, of lymph-drainage areas, 834

 cystectomy, simple, for cancer, infiltrating, of bladder, end results of, 635

 total, for carcinoma, of bladder, 635

 of esophagus, and esophagitis, and, 829

 fibrosarcoma, of bronchus, palliation after, 424

 of leiomyoma, of esophagus, 829

 of leiomyosarcoma, of esophagus, 830

 of stomach, 627

 of lung, techniques in, book review, 210

 for meningiomas, intracranial, hypertension in, controlled, 840

 for papilloma, of gallbladder, 207

 of polyps, of colon and rectum, 629

 prostatectomy, total, in carcinoma, of prostate, 208

 radical, technique of, for carcinoma, of rectum and sigmoid, 630

 repeated, for adenocarcinoma, of colon and sigmoid, 629

 resection, segmental, for cancer, infiltrating, of bladder, 635

 sphincter-preserving, for carcinoma, of rectum, mid-, 1053

 of stomach, Billroth I, book review,

technique of, for angiobroma, of nasopharynx, 624

for carcinoma, of urethra, male, 635

one-stage radical resection, for cancer, of cervical esophagus, larynx, pharynx, and lateral neck, 624

thoracolumbar approach in, extra-pleural, 624

of thoracic cavity, book review, 422

thoracoabdominal approach in, for cancer of esophagus, upper thoracic, 627

thoracotomy, diagnostic, in lesions, circumscribed, solitary, of lung, 1061

transcolonic, for polyps, late results of, 628

thoracotomy, enucleation, for tumors, of muscle-wall, of esophagus, 830

of tumors, adrenal, in childhood, 631

medulla, management of, 832

of eyelids, 839

of parotid, 417

of pelvis, renal, 835

Wilms', 634

SUTHERLAND, D. L., *jt. su.*, 623

SWEET, R. H., 830

SWEET, W. H., *jt. su.*, 623

SWIGART, R. H., *jt. su.*, 1062

SWINTON, N. W., 629

Syndrome, hypercalcemic, induced, in cancer, of breast, advanced, hormone therapy and, 204

Meigs', in child, in ovarian tumor, 208

of polyposis, intestinal, with pigmentation, circumoral, 830

Stein-Leventhal, and carcinoma, of endometrium, 835

Synkavit. *See* Compound I

Synovia, reticuloschistocytosis of, multicentric, 1060

SZABÓ, G., 1061

Tar, cigarette, as carcinogen, 848

TAVERAS, J. M., *jt. su.*, 421

TEILUM, G., 827, 1056

TELINDE, R. W., 419

TELONI, H. A., 839; *jt. su.*, 626

TEON, T. B., 634

Teratoma, benign cystic, of ovary, carcinoma in, squamous-cell, 419

of testis, 636

TERA-POGOSIAN, M. M., *jt. su.*, 840

Test, bromsulphalein in, cancer, metastatic, of liver, 1053

for cancer, blood-cell carboxypeptidase inhibitor as, 424

diagnostic, 213

for pheochromocytoma, 832, 833

Testis, 636, 835, 1059

adenoma of, vs. hyperplasia, interstitial-cell, 636

appendix of, histology of, normal, 836

cancer of, in cryptorchid, 1059

seminoma of, histochemistry of, 836

teratoma of, 636

tumors of, interstitial-cell, in children, 835

Testosterone, in carcinoma, of prostate, after adrenalectomy, bilateral, 635

esters of, effects of, in man, 1049

Tetrasodium 2-methyl-1, 4-naphthohydroquinone diphosphate (Synkavit). *See* Compound I

Thio-TEPA, cytotoxic action of, 623

in leukemia, effect of, 622

THOMAS, C. P., *jt. su.*, 840

THOMAS, C. P., 843

THOMAS, M., *jt. su.*, 844

THOMSON, R. V., *jt. su.*, 1058

Thoracotomy, diagnostic, for lesions, circumscribed, solitary, of lung, 1061

Thorax, 421

surgery of, book review, 422

THORSON, A., 1052

Thrombocytopenia, in myeloma, multiple, 636

Thrombosis, peripheral venous, indicative of tumor, 826

Thyroid, 632, 833, 1055

adenoma of, excision of, as prophylaxis, against cancer, 833

invasive, clinical findings in, 1055

cancer of, en bloc excision of, with lymph-drainage area, 834

experimental, 212

management of, 632

carcinoma of, vs. goiter, nodular, non-toxic, benign, 633

management of, 833

treatment of, end results of, 632, 633

types of, radioactive-iodine uptake by, 632

radioresensitivity of, 833

lesions of, histology of, after radioactive iodine for hyperthyroidism, 632

Thyroidectomy, radiation, pituitary changes after, 1054, 1055

Thyrotropin, age and, 1054

TIBBETTS, D. M., *jt. su.*, 204

Tissue culture, of fibroblasts, cytological change in, by freeze drying, microscopy of, phase-contrast, 1062

Tobacco. *See* Cigarette smoke; Lung, cancer in, in nonsmokers

TOBAR, E. J., 206

TONDREAU, R. L., 1053

Transplantation, heterologous, of hypophysis, human, 1054

homologous, immunity to, acquired, mobile resistance factor in, 845

TRAUT, H. F., *jt. su.*, 843

Treatment, 203, 622, 827, 1049

TREVÉS, N., 416

Triethylene thiophosphoramide. *See* Thio-TEPA

TRIFILIO, A., *jt. su.*, 1059

TRIMPL, H. D., *jt. su.*, 831

Trypsin, inhalation of, bronchial epithelial cell changes, after, 843

Tumor, adenomatoid, of genital tract, 1056

of animals, laboratory, book review of, 1062

of brain, localization of, radioactive iodinated human serum albumin for, 840

Brenner, of ovary, histogenesis of, 634

bronchogenic, metastatic, radioactive gold for, 204

clear-cell, (hypernephroid), of genital tract, 1056

of eye, Pb in diagnosis of, 841

granulosa-cell, malignant, in child, 419

of ovary, 419

and theca-cell, of ovary, in child, Meigs' syndrome in, 208

of infancy and childhood, 211

interstitial-cell, of testis, in children, 835

intracranial, primary, in male veterans, 843

mesonephric, of genital system, histogenesis of, 1056

multiple, 205, 842, 1053

of pancreas, gastrointestinal bleeding from, 631

papillary, of neck, lateral, 1055

serous, of ovary, pathology of, 1058

parathyroid, functioning, metastatic, to liver, 632

of pituitary, thyrotropin-secreting, morphological changes from, 1054

primary, of duodenum, 205

of skin, from croton oil, with 9,10-dimethyl-1,2-benzanthracene, 214

spontaneous, of animals, laboratory, book review, 1062

and thrombosis, venous, peripheral, as sign of, 826

vascular, involution of, spontaneous, 626

Warthin, atypical, of sinus, paranasal, maxillary, 842

Wilms', in children, 634

TURNER, D. L., 424

TURNER, H. H., *jt. su.*, 1049

Tyrosinase, in melanin formation, 839

Urethra, 635

male, carcinoma of, surgery for, technique of, 635

Urinary tract, cytology of, exfoliative, 826

in lymphoma, 209

Urine, a-ketosteroid excretion pattern in normal males, 212

Uterus, 418, 835, 1057. *See also* Cervix; Endometrium

cancer of, childbearing and, 625

marriage and, 625

choriocarcinoma of, pathology of, 1057

survival in, 1057

VAERNET, K., *jt. su.*, 421

Vagina, 834

cancer of, management of, 834

VALENZUELA, C. T., *jt. su.*, 830

DEVEER, J. A., 841

Vein invasion, in carcinoma, of colon, 628

VARE, R. D. DE, 835

VINK, M., 831

Virus, in etiology, of cancer, 212
 Vulva, cancer of, delay in diagnosis of, 202

WACHSTEIN, M., 836
 WAITE, V. C., 630
 WALDENSTRÖM, J., *jt. au.*, 1052
 WALL, J. A., *jt. au.*, 834
 WANG, M. K., *jt. au.*, 839
 WARD, D. E., *jt. au.*, 843
 WARNER, N. E., *jt. au.*, 424
 Warthin tumor, of paranasal sinus, maxillary, 842
 WATSON, W. L., 627
 WAUGH, J. M., 1053; *jt. au.*, 628
 WAY, S., *jt. au.*, 207
 WEBER, B. M., *jt. au.*, 631
 WEIRICH, W., *jt. au.*, 843
 WEISBERGER, A. S., 209

WELLER, R. W., 211
 WERF, J. TH. VAN DER, 1061
 WEST, C. D., *jt. au.*, 625
 WHEELER, C. E., 626
 WHITE, T. T., 626
 WHITMORE, W. F., JR., *jt. au.*, 625
 WIERMAN, W. H., 843
 WILLIAMS, C. JR., 1053
 WILLIAMS, H. L., *jt. au.*, 842
 WILLIAMS, L. G., 416
 WILLIAMS, R. B., *jt. au.*, 625
 Wilms's tumor, in children, 634
 WINDHEYER, B. W., 828
 WINSTON, N. J., *jt. au.*, 831
 WINTER, C. G. DE, 420
 WOLAN, C. T., *jt. au.*, 1059
 WOLDOW, I., *jt. au.*, 622
 WOLF, B. S., *jt. au.*, 830
 WOOD, D. A., *jt. au.*, 843
 WOOD, E. H., 421

WOODCOCK, A. S., *jt. au.*, 837
 WOODRUFF, J. D., 1058
 WOOLNER, L. B., *jt. au.*, 632
 WOOTTON, P., *jt. au.*, 834
 WYMAN, S. M., 1054
 WYNDER, E. L., 848

Xanthomatosis, *uz.* reticulohistiocytosis, multicentric, 1060

YOSHIS, E., *jt. au.*, 418

ZARAFONETIS, C., *jt. au.*, 622
 ZEIFER, H., 1049
 ZHEUTLIN, N., 1062
 ZININGER, M. M., *jt. au.*, 417
 ZORN, E. M., *jt. au.*, 843

